

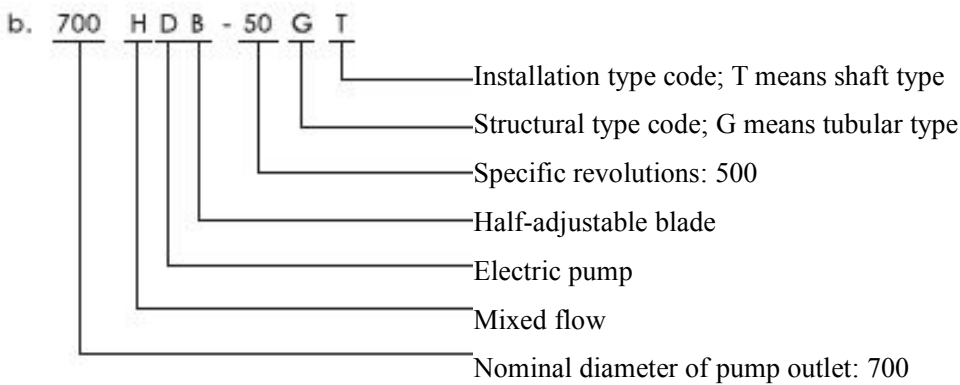
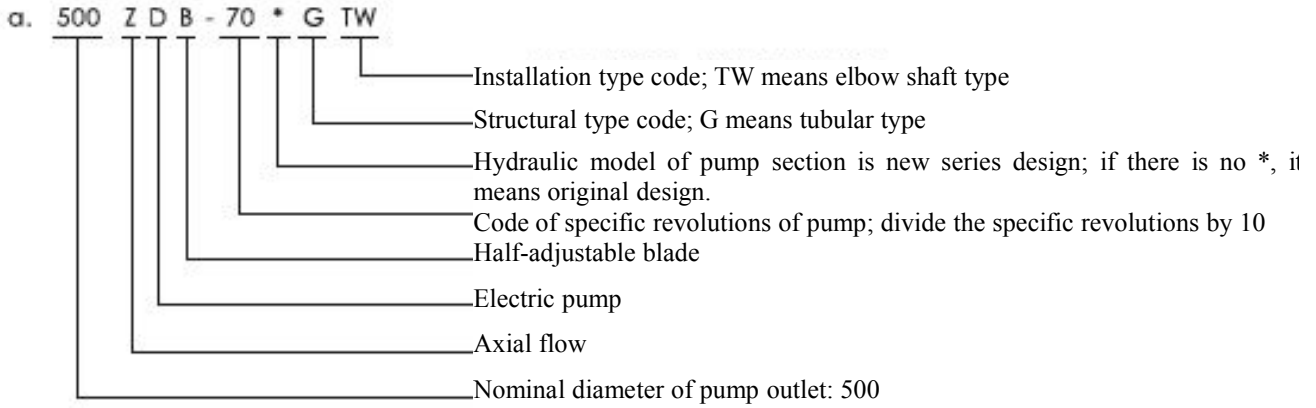


350-1600Z(H)DB Electric Submersible Pump

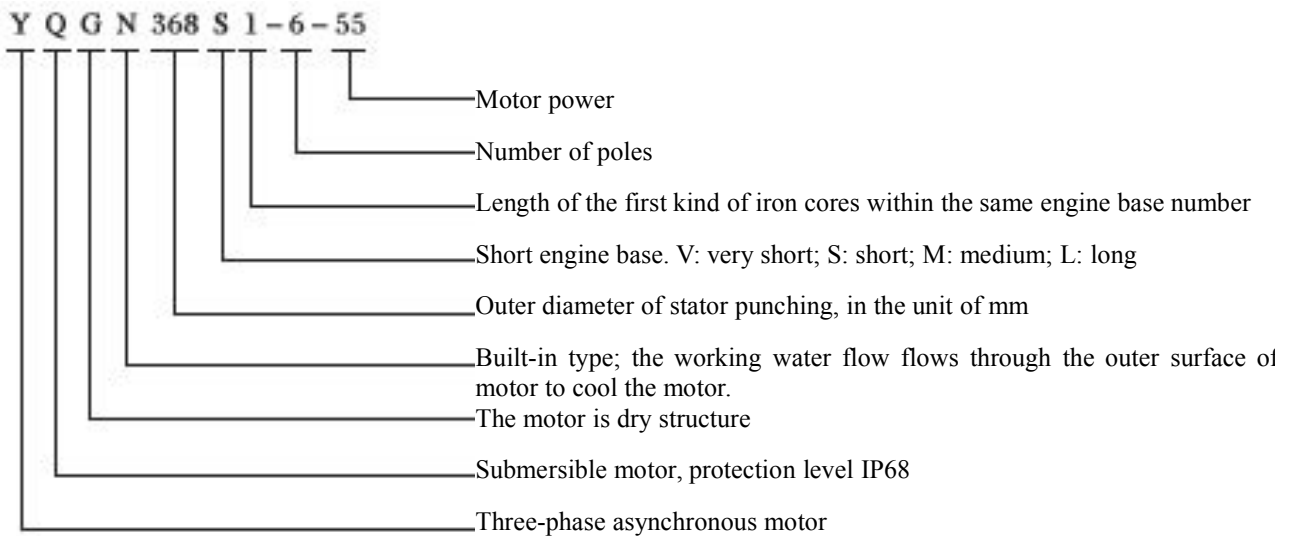
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3. Naming Conventions

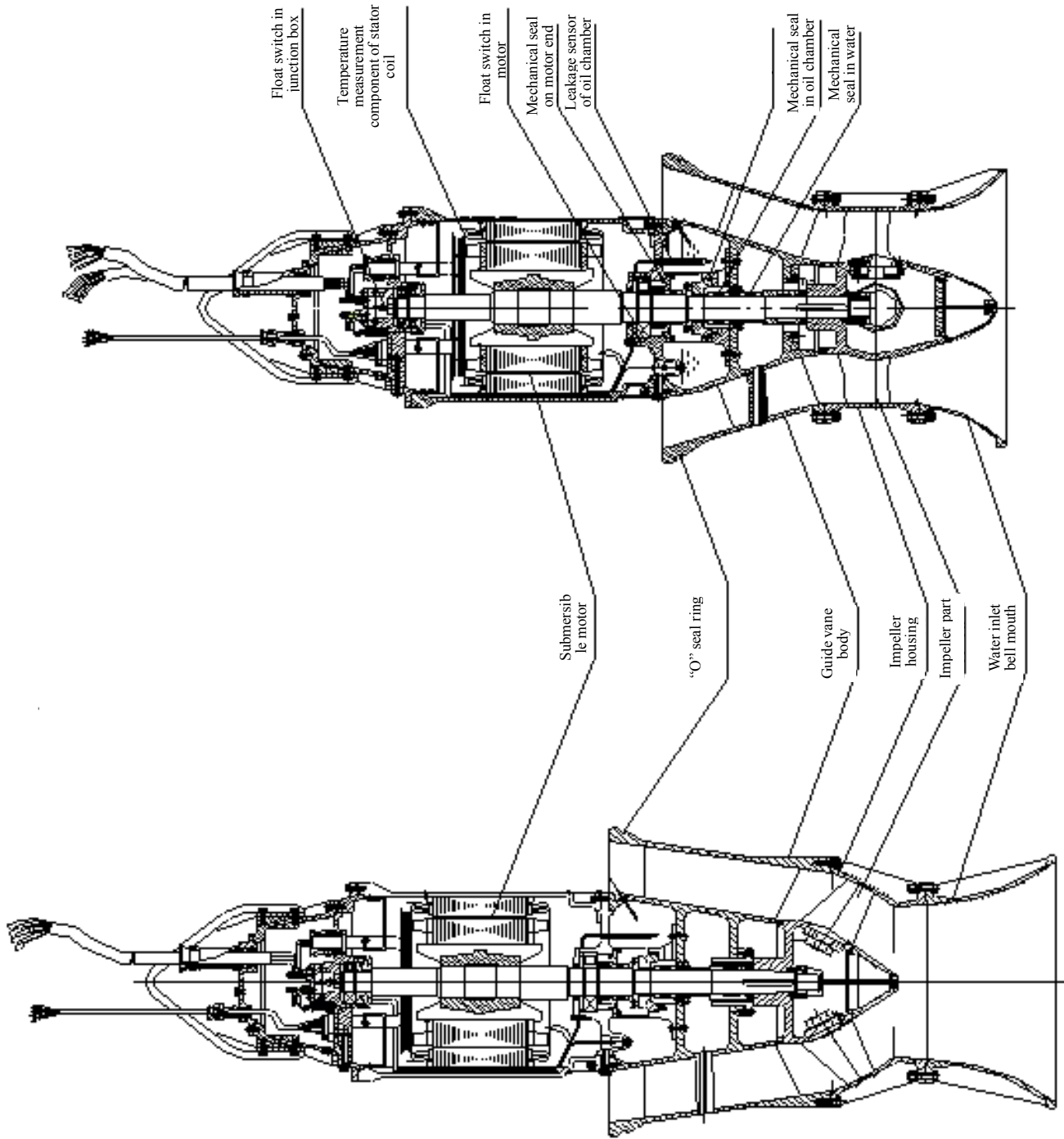
3.1 Electric Submersible Pump



3.2 Submersible Motor

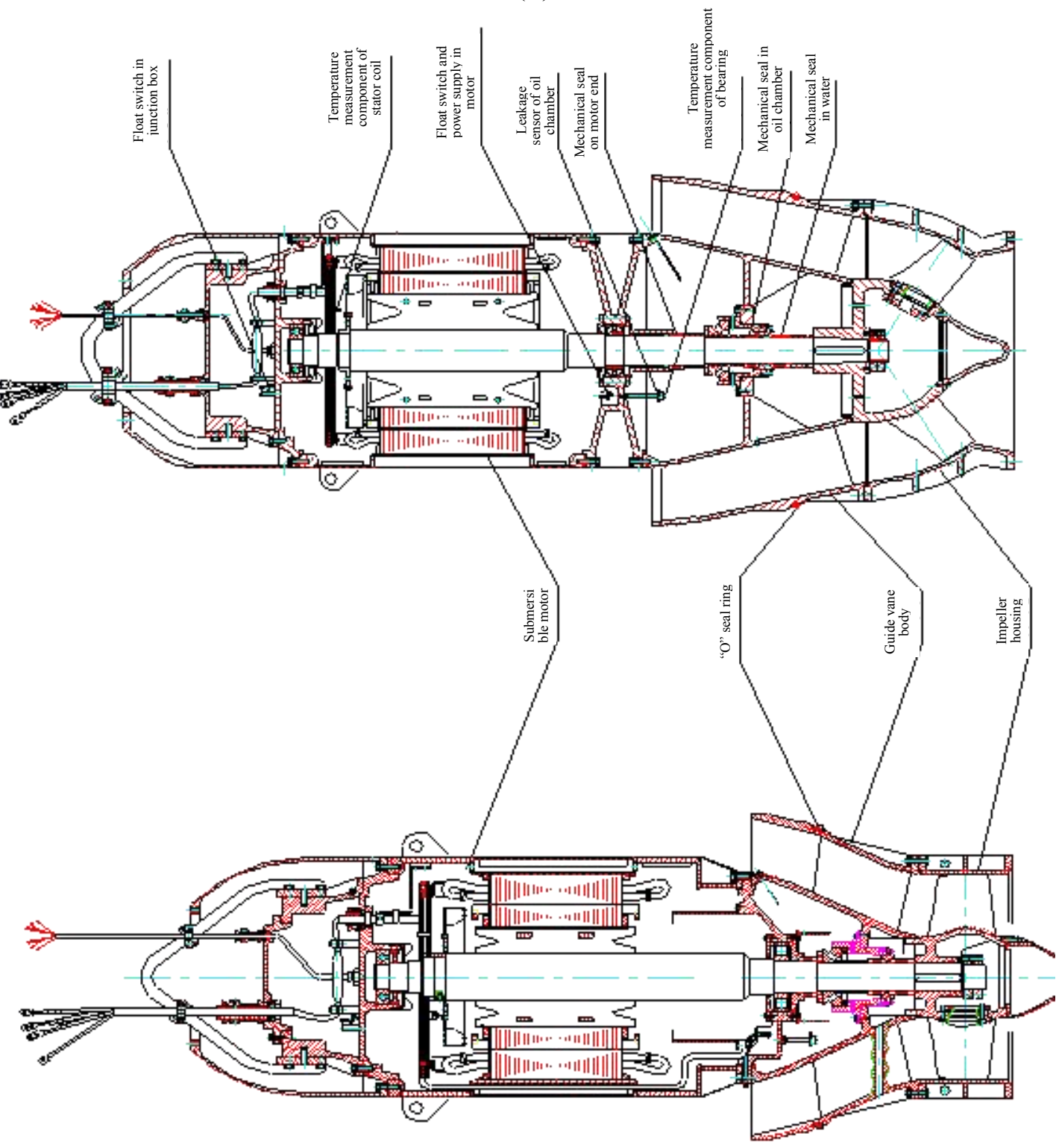


4.1 Structure Profile of 1000Z(H) DB ESPs and ESPs with Smaller Diameter Earlier Models



HDB Mixed Flow Electric Submersible Pump ZDB Mixed Flow Electric Submersible Pump

4.2 Structure Profile of 1200-1600Z(H) DB ESPs



Float switch in junction box

Temperature measurement component of stator coil

Float switch and power supply in motor

Leakage sensor of oil chamber

Mechanical seal on motor end

Temperature measurement component of bearing

Mechanical seal in oil chamber

Mechanical seal in water

Submersible motor

"O" seal ring

Guide vane body

Impeller housing

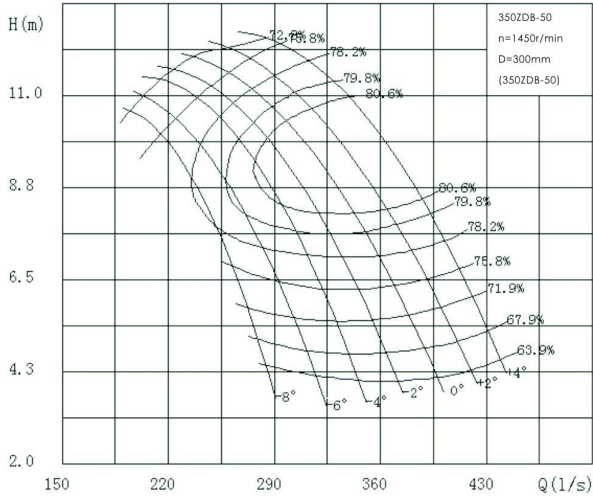
HDB Mixed Flow Electric Submersible Pump

ZDB Mixed Flow Electric Submersible Pump

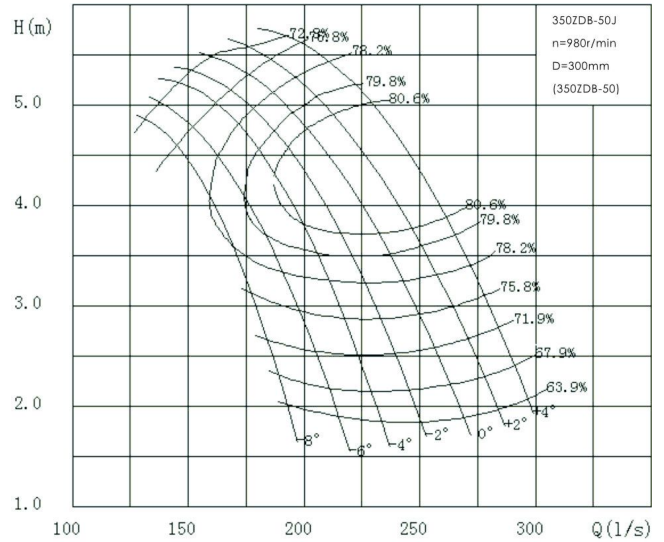
5. Performance Curve and Table of Electric Submersible Pump

5.1 Performance Curve and Table of ZDB Axial Flow Electric Submersible Pump

Performance Curve of 350ZDB-50 Electric Submersible Pump



Performance Curve of 350ZDB-50J Electric Submersible Pump



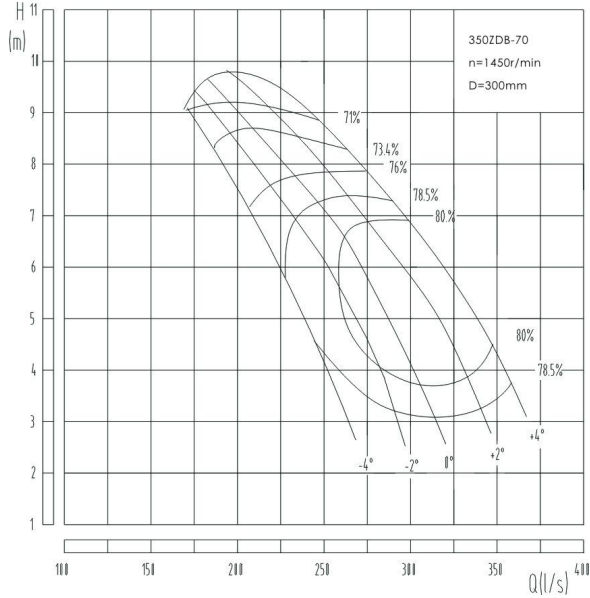
Performance Table of 350ZDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m3/h)	(l/s)			Shaft power	Motor power		
-4°	914	254	10.5	1450	34.74	YQGN	78.58	300
	1033	287	8.82		30.68	260-4	80.60	
	1137	316	6.82		28.18	37	78.04	
-2°	972	270	10.6		37.02	YQGN	79.05	
	1101	306	8.97		34.74	260-4	80.60	
	1213	337	6.94		30.58	40	78.09	
0°	1037	288	10.8		39.83	YQGN	79.64	
	1177	327	9.08		37.54		80.60	
	1296	360	7.07		33.07		78.30	
+2°	1112	309	10.9		43.16	260-4	79.96	
	1253	348	9.20		40.46		80.60	
	1372	381	7.20		35.88		77.96	
+4°	1310	364	9.89		44.89	45	80.60	
	1346	374	9.35		44.20		80.60	
	1454	404	7.35		39.10		77.60	

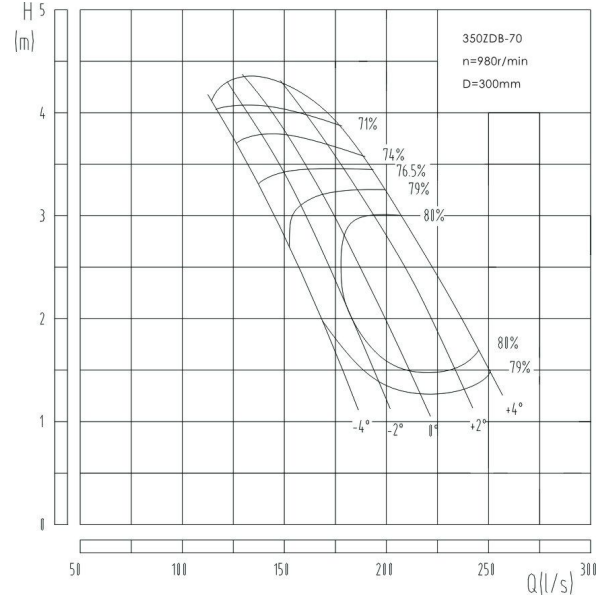
Performance Table of 350ZDB-50J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m3/h)	(l/s)			Shaft power	Motor power			
-4°	608	169	4.88	980	10.82	YQGN	77.93	300	
	706	196	3.97		9.88		80.60		
	673	187	4.34		10.30		80.59		
-2°	648	180	4.92		11.54		78.67		
	752	209	4.02		10.61		80.60		
	716	199	4.39		11.02		80.60		
0°	698	194	4.97		12.38		260-6		79.44
	803	223	4.08		11.54				80.60
	767	213	4.44		11.96				80.60
+2°	749	208	5.02		13.31		15		79.94
	853	237	4.15		12.48				80.60
	817	227	4.50		12.90				80.60
+4°	814	226	5.10		14.66				80.21
	911	253	4.23		13.52				80.60
	878	244	4.58		14.14				80.60

Performance Curve of 350ZDB-70 Electric Submersible Pump



Performance Curve of 350ZDB-70 Electric Submersible Pump



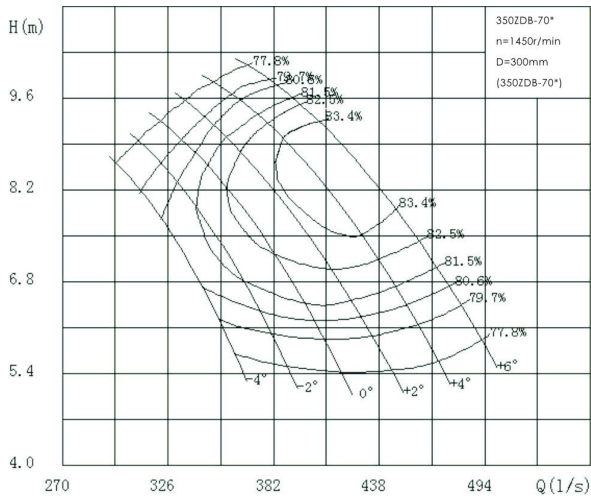
Performance Table of 350ZDB-70 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	716	199	7.56	1450	20.2	YQGN	76.3	300
	824	229	5.74		16.8	260-4	79.5	
	918	255	3.92		13.1	22	77.9	
-2°	770	214	7.65		21.6		77.1	
	896	249	5.88		18.7		80.1	
	1008	280	4.10		14.7		79.7	
0°	817	227	7.73		23.3	YQGN	77.0	
	954	265	5.99		20.3	260-4	80.1	
	1076	299	4.26		16.0	30	80.1	
+2°	896	249	7.87		26.0		76.9	
	1037	288	6.17		22.7		80.1	
	1159	322	4.46		18.3		80.0	
+4°	958	266	7.99	28.4	YQGN	75.7		
	1098	305	6.31	24.5	260-4	80.1		
	1213	337	4.60	20.0	37	79.3		

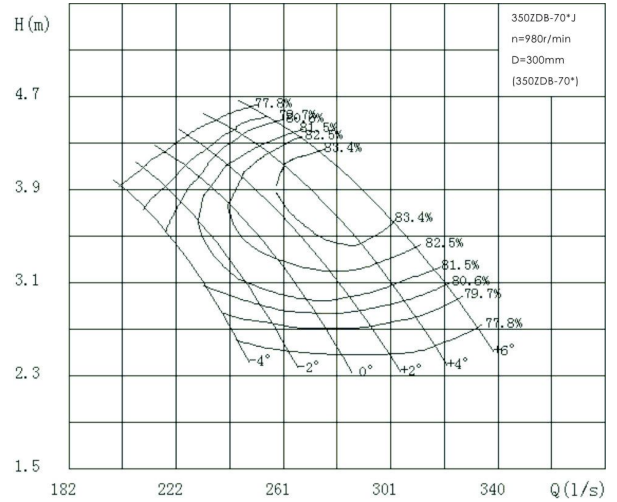
Performance Table of 350ZDB-70 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	490	136	3.41	980	6.14		76.5	300
	558	155	2.63		5.20		79.4	
	623	173	1.77		4.06	YQGN 260-6 7.5	77.8	
-2°	526	146	3.47		6.66		77.5	
	605	168	2.73		5.82		80.1	
	680	189	1.89		4.58		79.9	
0°	554	154	3.53		7.18		77.0	
	641	178	2.80		6.34		80.1	
	724	201	2.00		5.10		80.1	
+2°	601	167	3.62		8.11	YQGN 260-6 11	76.5	
	688	191	2.92		7.07		80.1	
	774	215	2.13		5.82		80.1	
+4°	637	177	3.70	8.94		74.9		
	727	202	3.01	7.70		80.1		
	810	225	2.23	6.34		80.1		

Performance Curve of 350ZDB-70* Electric Submersible Pump



Performance Curve of 350ZDB-70*J Electric Submersible Pump



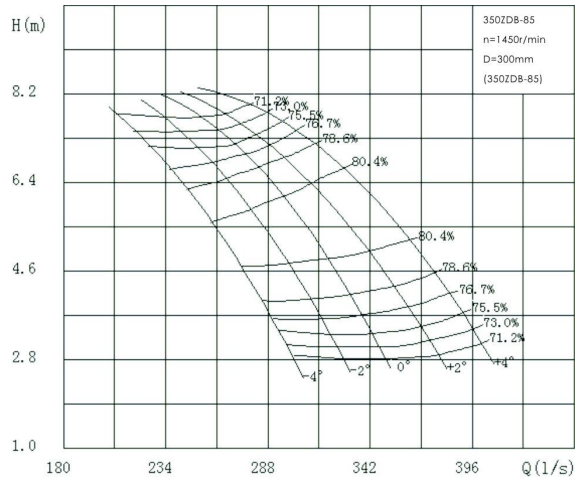
Performance Table of 350ZDB-70* Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)			
	(m ³ /h)	(l/s)			Shaft power	Motor power					
-4°	1055	293	8.76	1450	34.1	YQGN 260-4 40	76.8	300			
	1192	331	7.40		30.9		81.0				
	1321	367	5.36		26.3		76.2				
-2°	1123	312	8.92		36.3	YQGN 260-4 40	78.1		300		
	1260	350	7.59		33.0		81.9				
	1397	388	5.60		28.4		78.2				
0°	1184	329	9.08		38.6	YQGN 260-4 45	79.0			300	
	1328	369	7.79		35.4		82.7				
	1476	410	5.86		30.9		79.4				
+2°	1253	348	9.26		41.0	YQGN 260-4 45	80.1				300
	1397	388	8.00		38.0		83.4				
	1552	431	6.12		33.6		80.1				
+4°	1325	368	9.48	41.9	YQGN 260-4 45	81.0	300				
	1476	410	8.16	40.0		83.4					
	1631	453	6.40	36.9		80.4					
+6°	1397	388	9.70	42.9	YQGN 260-4 45	81.0		300			
	1548	430	8.50	41.7		83.4					
	1714	476	6.71	38.6		80.5					

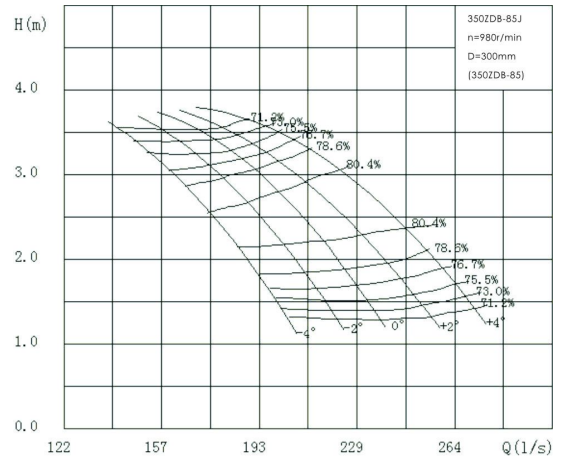
Performance Table of 350ZDB-70*J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)			
	(m ³ /h)	(l/s)			Shaft power	Motor power					
-4°	727	202	3.93	980	10.40	YQGN 260-6 15	77.7	300			
	814	226	3.30		9.36		81.0				
	893	248	2.46		8.11		76.7				
-2°	770	214	4.01		11.13	YQGN 260-6 15	78.8		300		
	860	239	3.39		10.09		81.9				
	943	262	2.57		8.74		78.6				
0°	814	226	4.10		11.86	YQGN 260-6 15	79.7			300	
	911	253	3.49		10.92		82.7				
	997	277	2.70		9.67		78.8				
+2°	857	238	4.18		12.58	YQGN 260-6 15	80.7				300
	950	264	3.59		11.65		83.4				
	1048	291	2.82		10.40		80.5				
+4°	907	252	4.29	13.52	YQGN 260-6 15	81.2	300				
	1001	279	3.72	12.69		83.4					
	1084	301	2.96	11.44		79.4					

Performance Curve of 350ZDB-85 Electric Submersible Pump



Performance Curve of 350ZDB-85J Electric Submersible Pump



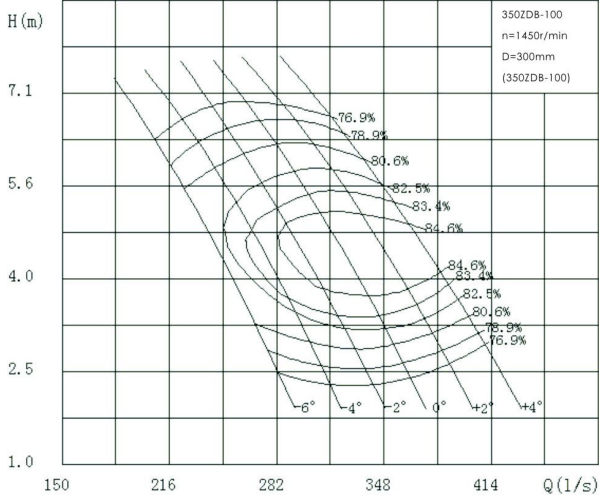
Performance Table of 350ZDB-85 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	1055	293	8.76	1450	34.1	YQGN 260-4 40	76.8	300
	1192	331	7.40		30.9		81.0	
	1321	367	5.36		26.3		76.2	
-2°	1123	312	8.92		36.3	78.1	78.8	
	1260	350	7.59		33.0	81.9	81.9	
	1397	388	5.60		28.4	78.2	78.2	
0°	1184	329	9.08		38.6	79.0	79.7	
	1328	369	7.79		35.4	82.7	82.7	
	1476	410	5.86		30.9	79.4	79.4	
+2°	1253	348	9.26		41.0	80.1	80.7	
	1397	388	8.00		38.0	83.4	83.4	
	1552	431	6.12		33.6	80.1	80.1	
+4°	1325	368	9.48	41.9	81.0	81.0		
	1476	410	8.16	40.0	83.4	83.4		
	1631	453	6.40	36.9	80.4	80.4		
+6°	1397	388	9.70	42.9	81.0	81.0		
	1548	430	8.50	41.7	83.4	83.4		
	1714	476	6.71	38.6	80.5	80.5		

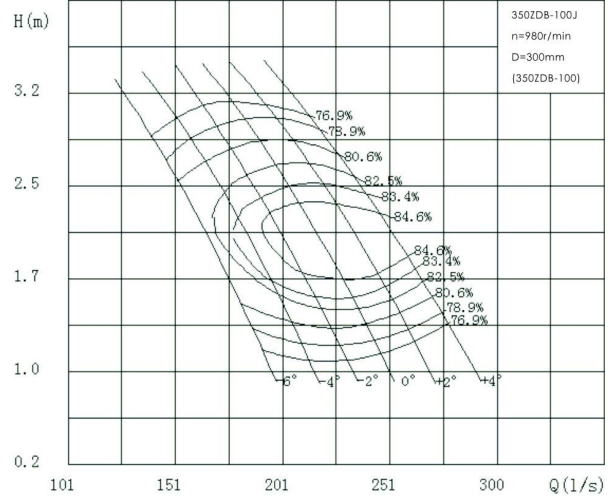
Performance Table of 350ZDB-85J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	727	202	3.93	980	10.40	YQGN 260-6 15	77.7	300
	814	226	3.30		9.36		81.0	
	893	248	2.46		8.11		76.7	
-2°	770	214	4.01		11.13	78.8		
	860	239	3.39		10.09	81.9		
	943	262	2.57		8.74	78.6		
0°	814	226	4.10		11.86	79.7		
	911	253	3.49		10.92	82.7		
	997	277	2.70		9.67	78.8		
+2°	857	238	4.18		12.58	80.7		
	950	264	3.59		11.65	83.4		
	1048	291	2.82		10.40	80.5		
+4°	907	252	4.29	13.52	81.2			
	1001	279	3.72	12.69	83.4			
	1084	301	2.96	11.44	79.4			

Performance Curve of 350ZDB-100 Electric Submersible Pump



Performance Curve of 350ZDB-100J Electric Submersible Pump



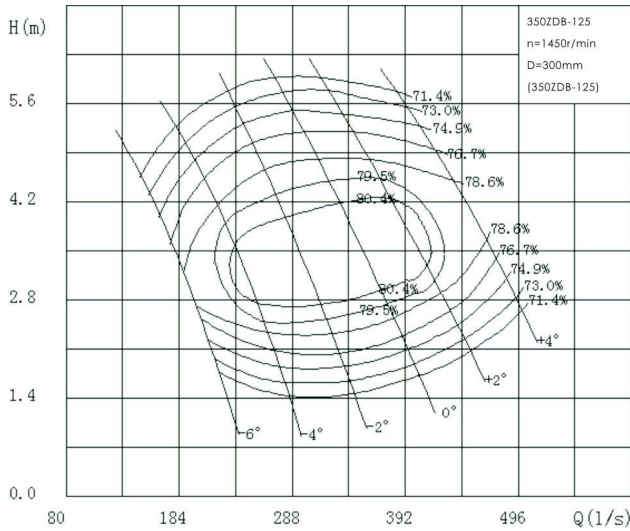
Performance Table of 350ZDB-100 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	788	219	5.79	1450	16.6	YQGN	79.31	300
	936	260	3.77		12.4	260-4	82.19	
	1040	289	2.17		8.9	18.5	73.26	
-4°	871	242	5.96		18.7	YQGN	80.39	
	1022	284	3.98		14.0	260-4	84.12	
	1127	313	2.42		10.1	22	78.15	
-2°	940	261	6.12		20.6		80.58	
	1094	304	4.18		15.6		84.6	
	1206	335	2.65		11.7		79.23	
0°	1008	280	6.3		22.8	YQGN	80.51	
	1170	325	4.39		17.6	260-4	84.6	
	1282	356	2.89		13.4	30	80.05	
+2°	1076	299	6.47	25.1		79.85		
	1246	346	4.62	19.6		84.6		
	1361	378	3.15	15.4		80.44		
+4°	1141	317	6.65	28.4	YQGN	77.07		
	1318	366	4.85	21.8	260-4	84.6		
	1440	400	3.40	17.6	37	80.98		

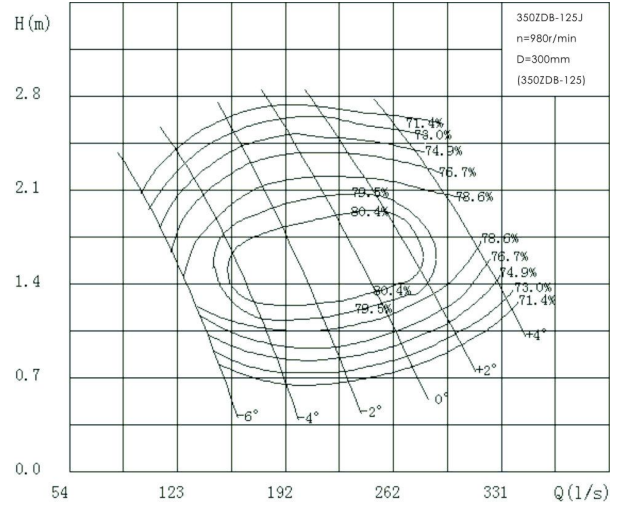
Performance Table of 350ZDB-100J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	功率 N Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	497	138	2.95	980	5.51		76.71	300
	612	170	1.93		4.13		82.62	
	688	191	1.16		2.97		77.00	
-4°	547	152	3.02		6.15	YQGN	77.46	
	670	186	2.03		4.66	260-6	84.31	
	745	207	1.28		3.50	7.5	79.92	
-2°	598	166	3.10		6.89		77.63	
	716	199	2.12		5.19		84.60	
	796	221	1.39		3.92		81.23	
0°	641	178	3.17		7.63		76.72	
	767	213	2.22		5.83		84.60	
	846	235	1.50		4.45		82.85	
+2°	680	189	3.24	8.57	YQGN	74.54		
	814	226	2.33	6.47	260-6	84.60		
	896	249	1.63	5.09	11	83.34		
+4°	724	201	3.33	9.86		70.26		
	860	239	2.43	7.21		83.39		
	950	264	1.76	5.83		83.08		

Performance Curve of 350ZDB-125 Electric Submersible Pump



Performance Curve of 350ZDB-125J Electric Submersible Pump



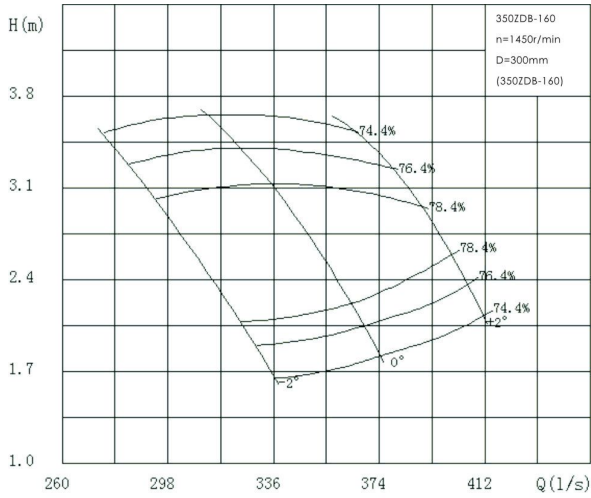
Performance Table of 350ZDB-125 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			Shaft power	Motor power			
-4°	745	207	4.56	1450	12.95	YQGN	76.66	300	
	914	254	2.84		9.42	260-4	80.40		
	1004	279	1.72		6.85	15	73.61		
-2°	925	257	4.86		16.91	YQGN	77.76		
	1091	303	3.19		12.63	260-4	80.40		
	1188	330	2.12		9.42	22	77.79		
0°	1080	300	5.17		21.30	YQGN	76.50		
	1260	350	3.60		16.48		260-4		80.40
	1368	380	2.59		13.16		78.71		
+2°	1202	334	5.46		25.57	30	74.95		
	1400	389	3.97		20.11		80.40		
	1516	421	3.01		16.91		79.02		
+4°	1364	379	5.88	33.17	YQGN	70.42			
	1573	437	4.49	26.11	260-4	78.83			
	1692	470	3.58	22.58	37	78.05			

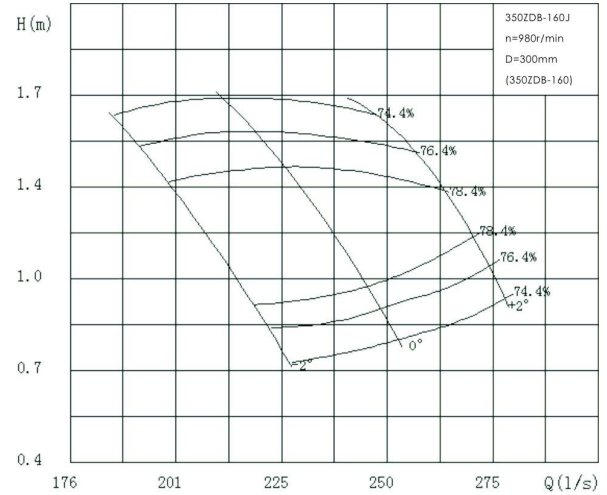
Performance Table of 350ZDB-125J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	504	140	2.07	980	3.96	YQGN	76.62	300
	612	170	1.35		3.00		80.40	
	695	193	0.66		1.82		71.66	
-2°	619	172	2.26		5.24	260-6	77.37	
	724	201	1.56		4.07		80.40	
	817	227	0.84		2.68		75.42	
0°	713	198	2.45		6.74	7.5	75.70	
	828	230	1.80		5.35		80.40	
	947	263	1.06		3.75		76.94	
+2°	788	219	2.61		8.13	YQGN	73.97	
	911	253	2.01		6.63		80.10	
	1048	291	1.25		4.92		77.43	
+4°	875	243	2.84	10.81	11	67.57		
	1026	285	1.93	7.70		79.60		
	1166	324	1.50	6.74		76.14		

Performance Curve of 350ZDB-160 Electric Submersible Pump



Performance Curve of 350ZDB-160J Electric Submersible Pump



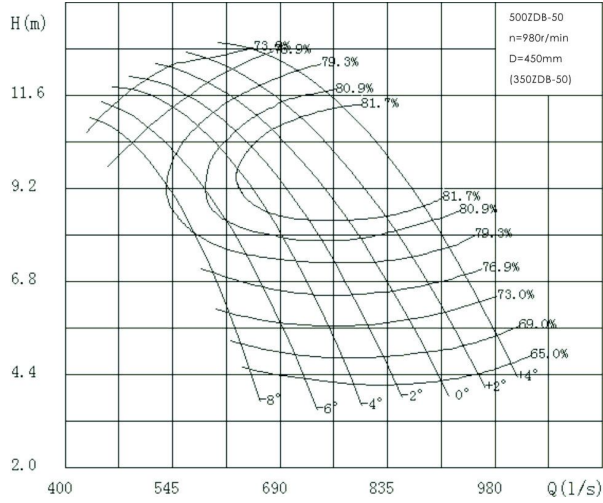
Performance Table of 350ZDB-160 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-2°	1044	290	3.10	1450	12.2	YQGN	77.33	300
	1112	309	2.56		10.6	260-4	78.40	
	1199	333	1.79		8.3	15	76.21	
0°	1112	309	3.20		13.5	YQGN	77.11	
	1264	351	2.68		12.6	260-4	78.40	
	1318	366	2.15		10.6	18.5	77.97	
+2°	1314	365	3.54		18.2	YQGN	74.54	
	1418	394	2.80		14.8	260-4	78.40	
	1444	401	2.56		12.7	22	78.4	

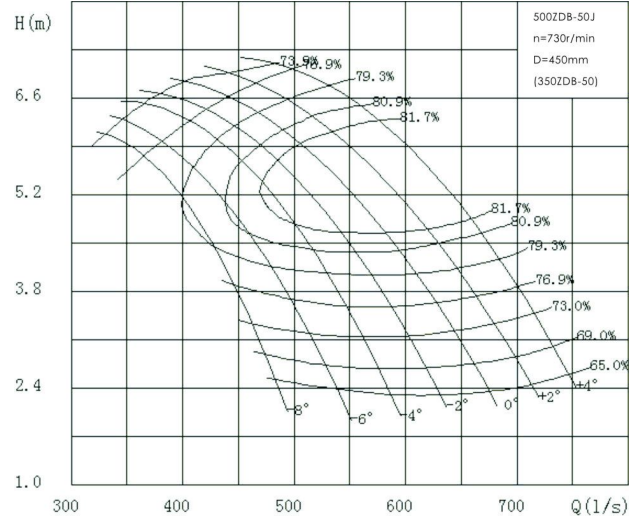
Performance Table of 350ZDB-160J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-2°	713	198	1.40	980	3.75	YQGN 260-6 7.5	77.94	300
	742	206	1.23		3.42		78.40	
	821	228	0.73		2.35		74.36	
0°	785	218	1.58		4.82		75.75	
	860	239	1.18		3.75		78.40	
	907	252	0.85		3.00		75.17	
+2°	860	239	1.68		5.78		72.87	
	954	265	1.31		4.71		78.40	
	1001	278	0.98		3.75		75.81	

Performance Curve of 500ZDB-50 Electric Submersible Pump



Performance Curve of 500ZDB-50J Electric Submersible Pump



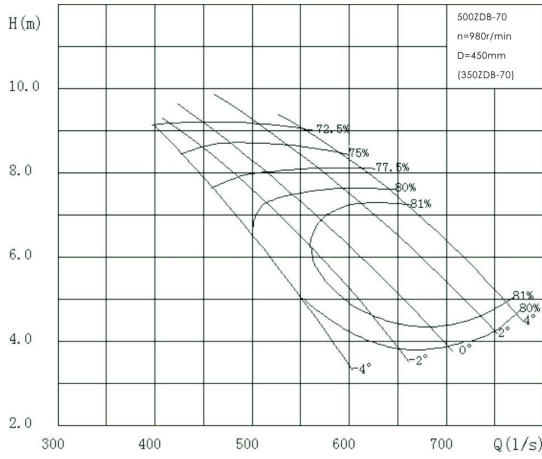
Performance Table of 500ZDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	1969	547	11.3	980	81.33	YQGN	77.50	450
	2401	667	8.79		73.22		81.70	
	2689	747	5.99		60.94		74.89	
-2°	2099	583	11.4		86.94	368-6	78.02	
	2556	710	8.90		78.83	90	81.70	
	2869	797	6.13		66.35	75.09		
0°	2250	625	11.6		93.39	YQGN	78.94	
	2728	758	9.02		85.38		81.70	
	3064	851	6.28		72.18		75.54	
+2°	2419	672	11.7		101.4	368-6	79.37	
	2902	806	9.15		92.14		81.70	
	3240	900	6.44		79.25		74.65	
+4°	2635	732	12.0	109.8	110	80.12		
	3107	863	9.32	100.5		81.70		
	3420	950	6.60	86.01		74.42		

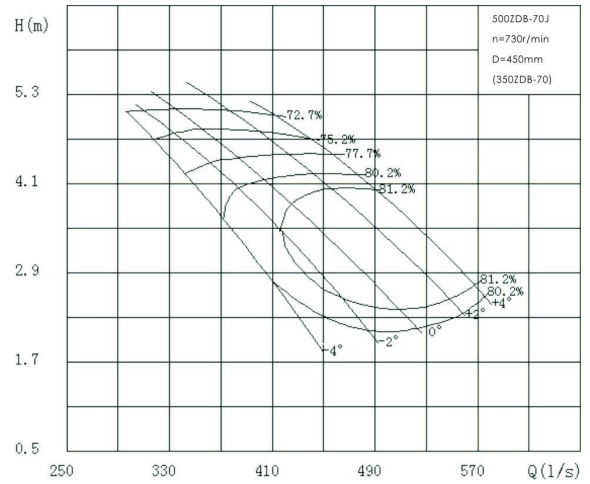
Performance Table of 500ZDB-50J Electric Submersible

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	1559	433	5.98	730	33.18	YQGN	79.80	450
	1778	494	4.93		30.39		81.70	
	1948	541	3.75		26.31		78.82	
-2°	1656	460	6.04		35.36	368-8	80.24	
	1890	525	5.01		32.86	37	81.70	
	2077	577	3.85		28.70	78.84		
0°	1771	492	6.12		38.06	YQGN	80.85	
	2012	559	5.10		35.57		81.70	
	2210	614	3.97		31.41		79.09	
+2°	1897	527	6.21		41.18	368-8	81.19	
	2135	593	5.20		38.58		81.70	
	2336	649	4.08		34.22		78.94	
+4°	2059	572	6.34	44.95	45	81.45		
	2286	635	5.33	42.33		81.70		
	2473	687	4.21	37.54		78.68		

Performance Curve of 500ZDB-70 Electric Submersible Pump



Performance Curve of 500ZDB-70J Electric Submersible Pump



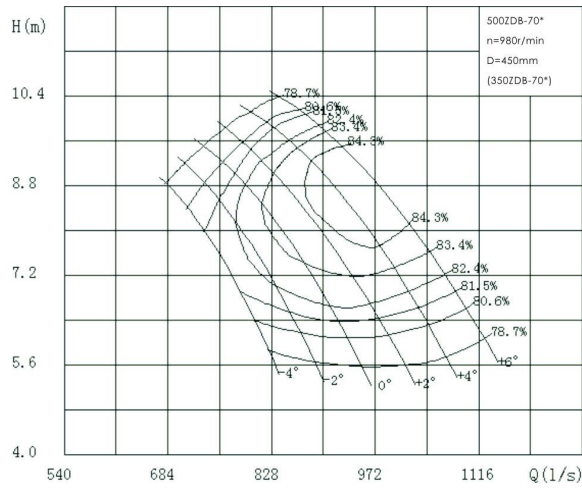
Performance Table of 500ZDB-70 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	1370	380	9.44	980	52.4	YQGN	70.0	450
	1760	489	7.00		43.9		79.6	
	2050	571	4.35		32.3		78.5	
-2°	1720	479	8.20		54.0	368-6	74.5	
	2010	559	6.43		45.8		80.0	
	2250	625	4.90		42.2		73.5	
0°	2099	583	7.00		52.0	55	79.9	
	2160	600	6.30		47.3		81.2	
	2510	695	3.90		36.0		77.0	
+2°	2340	650	6.60		54.3	YQGN	81.5	
	2560	711	5.60		48.6		82.0	
	2660	741	4.67		43.3		81.5	
+4°	2700	750	5.60	51.5	368-6	83.0		
	2858	794	4.40	45.1		65(75)	79.0	

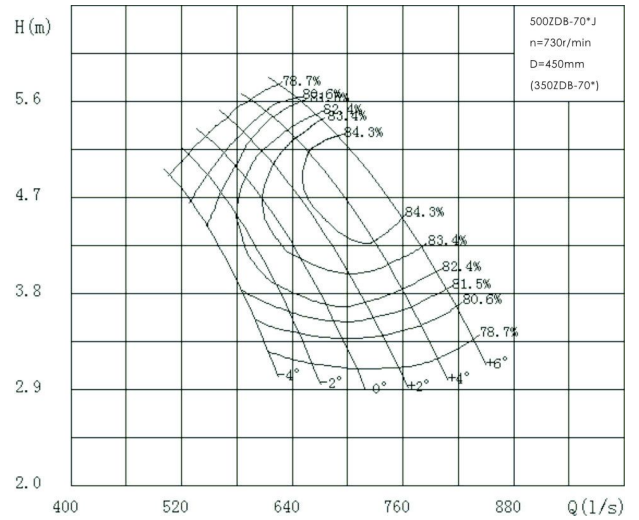
Performance Table of 500ZDB-70J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	1020	282	5.32	730	22.5	YQGN	68.2	450
	1310	364	3.95		18.7		78.4	
	1530	426	2.45		13.8		77.2	
-2°	1170	326	5.16		23.4	368-8	73.0	
	1500	416	3.62		19.5		78.8	
	1675	465	2.76		18.2		71.9	
0°	1480	410	4.16		22.4	30	77.8	
	1610	447	3.56		20.3		80.1	
	1870	520	2.16		15.1		75.6	
+2°	1710	474	3.95		23.8	368-8	80.4	
	1910	530	3.10		20.7		80.9	
	1990	552	2.63		18.4		80.4	
+4°	1640	454	4.44	27.4	30	75.4		
	1860	544	3.52	22.6		82.0		
	2100	582	2.82	20.6		81.5		

Performance Curve of 500ZDB-70* Electric Submersible Pump



Performance Curve of 500ZDB-70*J Electric Submersible Pump



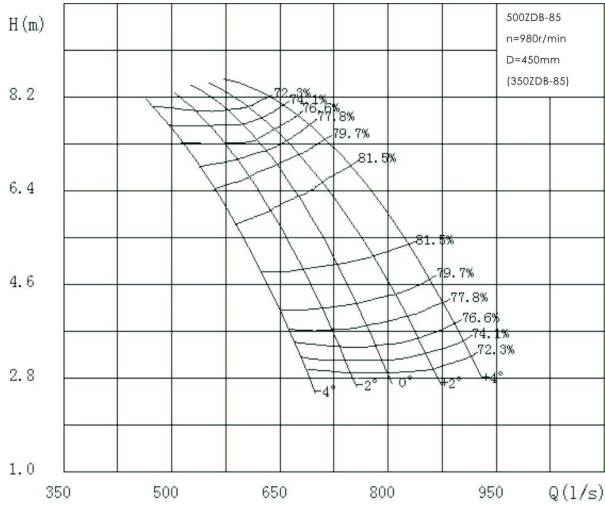
Performance Table of 500ZDB-70* Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	2243	623	8.94	980	78.5	YQGN	78.13	450
	2711	753	7.67		72.0	368-6	81.89	
	3013	837	5.47		60.9	95	76.8	
-2°	2574	715	9.11		83.7	YQGN	79.35	
	2858	794	7.86		77.0		82.77	
	3190	886	5.72		65.5		78.95	
0°	2718	755	9.29		89.2	368-6	80.18	
	3020	839	8.08		82.7	110	83.62	
	3373	937	5.99		71.3		80.24	
+2°	2869	797	9.48		94.9	YQGN	81.31	
	3172	881	8.29		88.4		84.30	
	3546	985	6.26		77.7		80.98	
+4°	3042	845	9.71	102.4	YQGN	81.83		
	3355	932	8.56	96.5	368-6	84.30		
	3726	1035	6.57	85.2		81.29		
+6°	3193	887	9.93	109.5	130	82.07		
	3510	975	8.81	104.0		84.30		
	3906	1085	6.68	93.6		81.42		

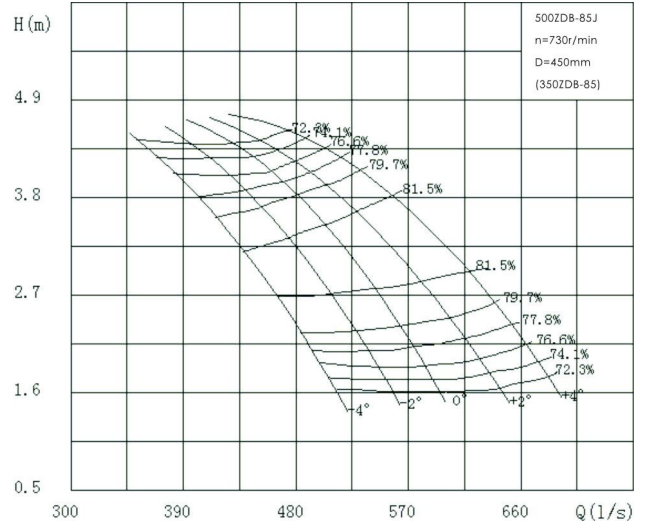
Performance Table of 500ZDB-70*J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	1843	512	4.87	730	32.45	YQGN	79.07	450
	1987	552	4.38		30.16		81.71	
	2174	604	3.46		26.62	368-8	80.32	
-2°	1955	543	4.96		34.55		80.32	
	2102	584	4.48		32.24	37	82.61	
	2300	639	3.59		28.70		81.52	
0°	2063	573	5.06		36.86	YQGN	80.99	
	2218	616	4.59		34.53		83.55	
	2430	675	3.73		30.99		82.60	
+2°	2174	604	5.17		39.17	YQGN	82.17	
	2333	648	4.70		36.82	368-8	84.30	
	2556	710	3.85		33.59		83.06	
+4°	2182	606	5.54	42.95	45	79.76		
	2466	685	4.84	40.14		84.30		
	2696	749	4.00	36.71		83.20		

Performance Curve of 500ZDB-85 Electric Submersible Pump



Performance Curve of 500ZDB-85J Electric Submersible Pump



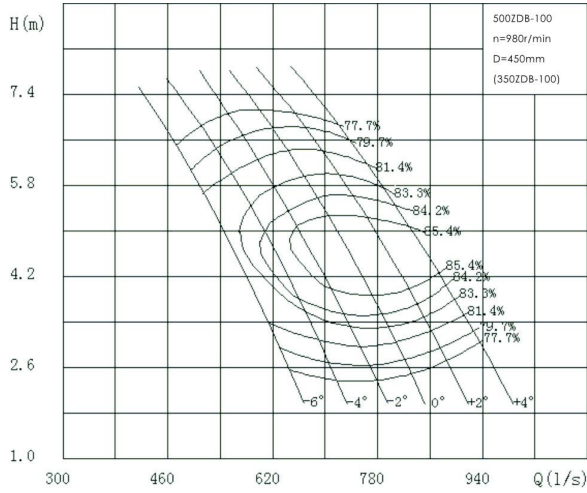
Performance Table of 500ZDB-85 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	1937	538	6.93	980	50.0	YQGN	71.55	450
	2178	605	5.38		41.5	368-6	81.5	
	2466	685	3.01		29.6	55	72.59	
-2°	2102	584	7.10		55.6	YQGN	77.52	
	2358	655	5.59		46.6	81.5		
	2657	738	3.26		33.5	368-6	74.66	
0°	2257	627	7.27		61.5	65	77.01	
	2520	700	5.78		51.6	81.5		
	2812	781	3.47		36.5	77.12		
+2°	2362	656	7.39		64.9	YQGN	77.52	
	2664	740	5.97		56.2	81.5		
	3006	835	3.75		42.2	368-6	77.25	
+4°	2520	700	7.58	70.2	80	78.57		
	2837	788	6.21	62.4	81.5			
	3186	885	4.03	48.0	77.34			

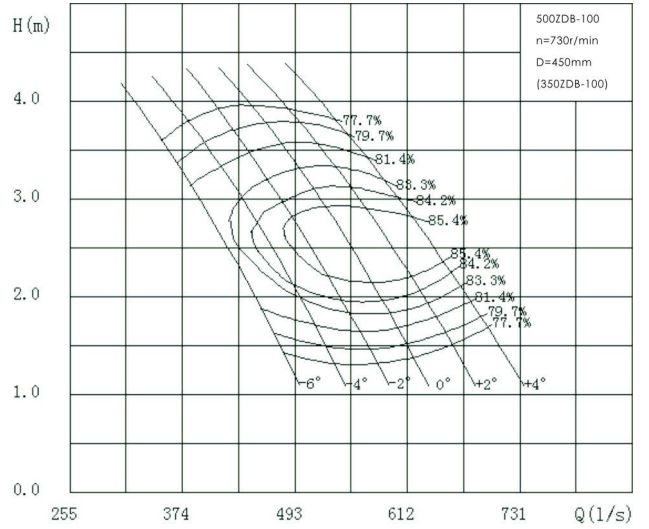
Performance Table of 500ZDB-85J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	1346	374	4.21	730	21.94	YQGN	74.72	450
	1613	448	3.03		17.28		81.50	
	1775	493	2.08		13.42		78.06	
-2°	1465	407	4.30		24.13	368-8	73.81	
	1746	485	3.15		19.14		81.50	
	1912	531	2.22		15.29		78.82	
0°	1559	433	4.38		26.62	30	72.71	
	1861	517	3.27		21.22		81.50	
	2030	564	2.35		17.06		79.38	
+2°	1627	452	4.44		28.29	YQGN	72.56	
	1969	547	3.38		23.19		81.50	
	2160	600	2.51		19.24		79.78	
+4°	1721	478	4.53	30.37	368-8	72.82		
	2092	581	3.52	25.69		81.50		
	2290	636	2.67	21.63		80.04		

Performance Curve of 500ZDB-100 Electric Submersible Pump



Performance Curve of 500ZDB-100J Electric Submersible Pump



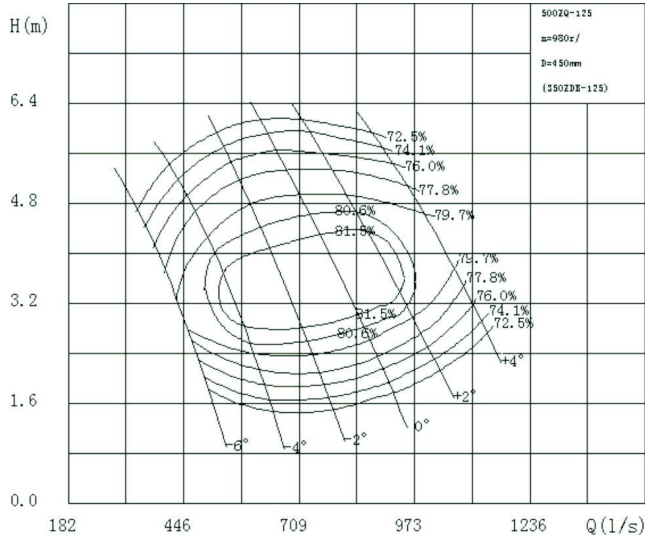
Performance Table of 500ZDB-100 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	1886	524	5.46	980	36.2	368-6	80.75	450
	2149	597	3.81		28.5		83.15	
	2390	664	2.07		19.6		78.18	
-4°	2070	575	5.63		40.7	YQGN	81.46	
	2344	651	4.02		31.9	85.09		
	2596	721	2.32		22.3	81.29		
-2°	2236	621	5.80		45.0	55	81.92	
	2513	698	4.22		35.8		85.40	
	2776	771	2.55		25.9		82.52	
0°	2405	668	5.99		49.8	368-6	81.89	
	2686	746	4.43		40.3		85.40	
	2952	820	2.79		29.9		83.92	
+2°	2556	710	6.17		55.1	YQGN	80.87	
	2858	794	4.66		45.0	85.40		
	3136	871	3.06		34.4	84.20		
+4°	2707	752	6.36		61.7	65	78.28	
	3020	839	4.89		49.9		85.16	
	3316	921	3.34		39.5		84.15	

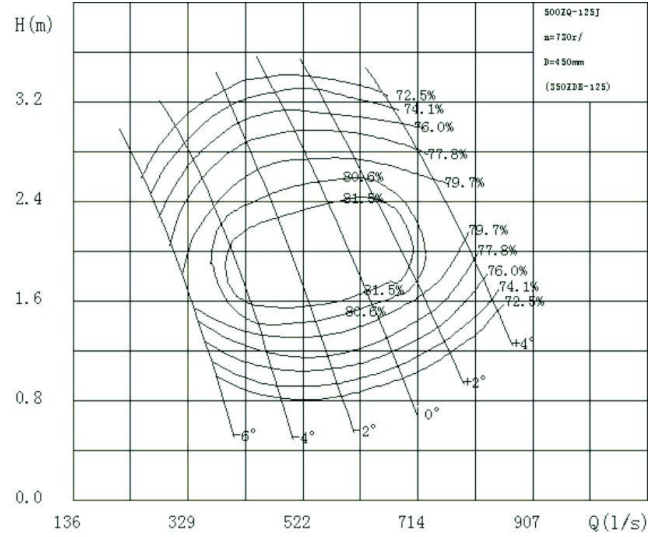
Performance Table of 500ZDB-100J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	1361	378	3.22	730	15.69	YQGN	80.75	450
	1584	440	2.20		12.08		83.15	
	1717	477	1.50		9.54		78.18	
-4°	1498	416	3.33		17.60	368-8	81.46	
	1724	479	2.33		13.67		85.09	
	1865	518	1.64		10.92		81.29	
-2°	1613	448	3.43		19.50	22	81.92	
	1847	513	2.45		15.37		85.40	
	1994	554	1.78		12.40		82.52	
0°	1732	481	3.54		21.62	YQGN	81.89	
	1973	548	2.59		17.28		85.40	
	2120	589	1.92		13.99		83.92	
+2°	1836	510	3.64		23.96	368-8	80.87	
	2092	581	2.72		19.29		85.40	
	2250	625	2.07		16.01		84.20	
+4°	1948	541	3.76		27.03	30	78.28	
	2207	613	2.86		21.41		85.16	
	2376	660	2.23		18.13		84.15	

Performance Curve of 500ZDB-125 Electric Submersible Pump



Performance Curve of 500ZDB-125J Electric Submersible Pump



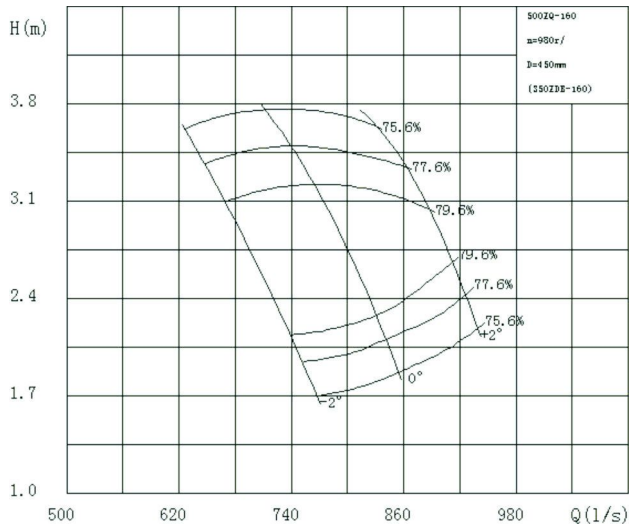
Performance Table of 500ZDB-125 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	1447	402	3.74	980	20.4	YQGN	77.84	450
	1681	467	2.56		16.2	368-6	77.79	
	2599	722	1.01		10.2	80.52		
-4°	1850	514	4.05		27.1	37	81.50	
	2088	580	2.91		21.7	75.05	80.65	
	3128	869	1.41		17.1	81.50		
-2°	2239	622	4.42		35.7	YQGN	81.50	
	2473	687	3.32		29.4	79.86	80.00	
	3654	1015	1.89		25.1	368-6	81.50	
0°	2599	722	4.82		45.7	55	81.50	
	2855	793	3.8		38.9	81.44	80.00	
	4165	1157	2.42		36.2	78.63		
+2°	2873	798	5.17	55.0	YQGN	81.50		
	3150	875	4.21	47.4	368-6	82.00		
	4558	1266	2.88	46.8	65	73.92		
+4°	3236	899	5.69	72.7	YQGN	79.16		
	3528	980	4.8	62.4	368-6	81.25		
	5036	1399	3.5	63.2	80			

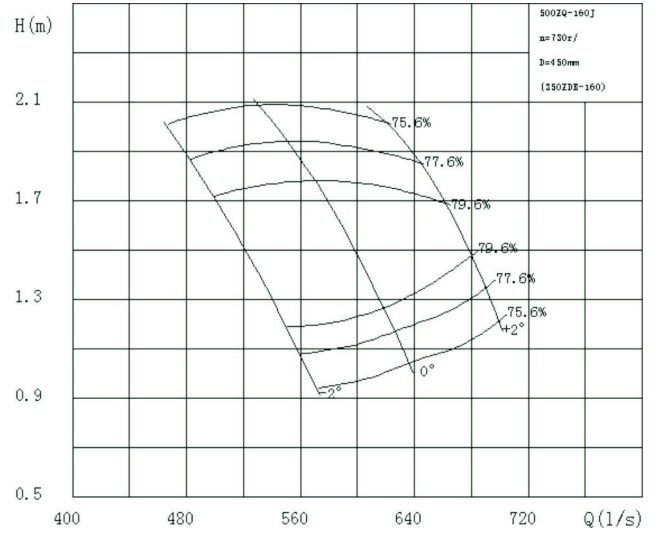
Performance Table of 500ZDB-125J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	1012	281	2.30	730	8.99	YQGN	75.81	450
	1231	342	1.50		6.85	368-8	79.00	
	1379	383	0.88		4.92	11	71.90	
-4°	1318	366	2.44		11.88	YQGN	79.33	
	1541	428	1.67		9.20	368-8	81.50	
	1688	469	1.07		6.96	15	75.60	
-2°	1620	450	2.62		15.52	YQGN	79.93	
	1840	511	1.87		12.31	81.50	81.50	
	1994	554	1.29		9.42	368-8	79.55	
0°	1886	524	2.80		19.47	368-8	79.04	
	2128	591	2.10		15.94	22	81.50	
	2304	640	1.55		12.95	30	80.37	
+2°	2099	583	2.97	23.43	YQGN	77.64		
	2362	656	2.30	19.47	368-8	81.50		
	2552	709	1.79	16.48	30	80.63		
+4°	2383	662	3.22	30.60	YQGN	73.27		
	2660	739	2.60	25.36	368-8	79.70		
	2851	792	2.11	21.94	37	79.73		

Performance Curve of 500ZDB-160 Electric Submersible Pump



Performance Curve of 500ZDB-160J Electric Submersible Pump



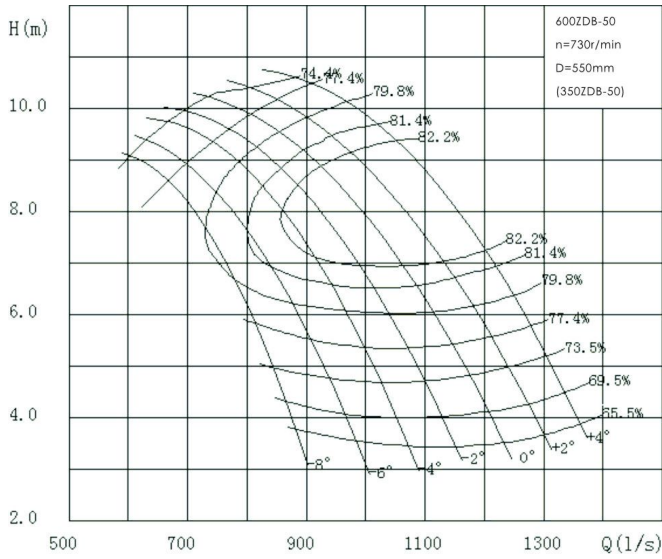
Performance Table of 500ZDB-160 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-2°	2394	665	3.15	980	27.9	YQGN	78.8	450
	2653	737	2.16		21.0	368-6	79.6	
	2729	758	1.85		19.0	37	77.38	
0°	2668	741	3.48		34.9	YQGN	77.52	
	2930	814	2.52		27.0	368-6	79.6	
	2999	833	2.22		24.5	45	79.33	
+2°	2909	808	3.79		43.2	YQGN	74.39	
	3218	894	2.94		34.7	368-6	79.6	
	3287	913	2.64		31.8	55	79.6	

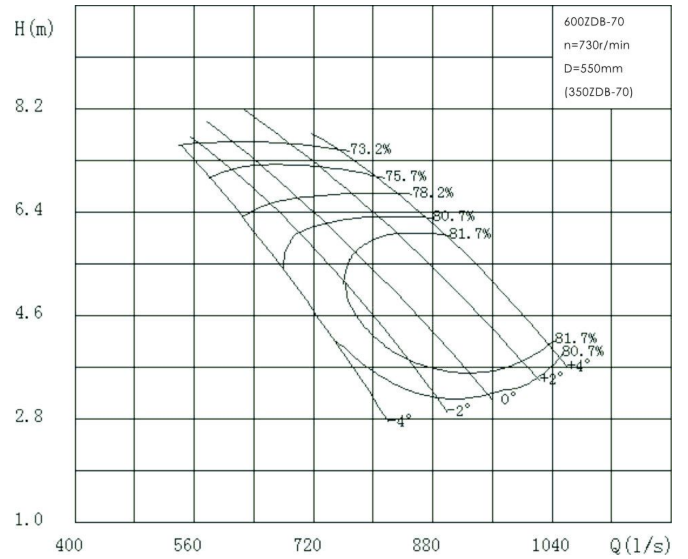
Performance Table of 500ZDB-160J Electric Submersible Pump

Installation angle of blade	Flow (Q)		(m) Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-2°	1778	494	1.76	730	11.66	YQGN	78.64	450
	1930	536	1.35		9.52	368-8	79.60	
	2063	573	0.92		7.28	75.84		
0°	2009	558	1.89		14.12	15	78.17	
	2160	600	1.48		11.77	79.60		
	2282	634	1.06		9.31	76.52		
+2°	2228	619	1.68		17.44	YQGN	75.65	
	2398	666	1.31		14.45	368-8	79.60	
	2513	698	0.98		11.66	32	76.82	

Performance Curve of 600ZDB-50 Electric Submersible Pump



Performance Curve of 600ZDB-70 Electric Submersible Pump



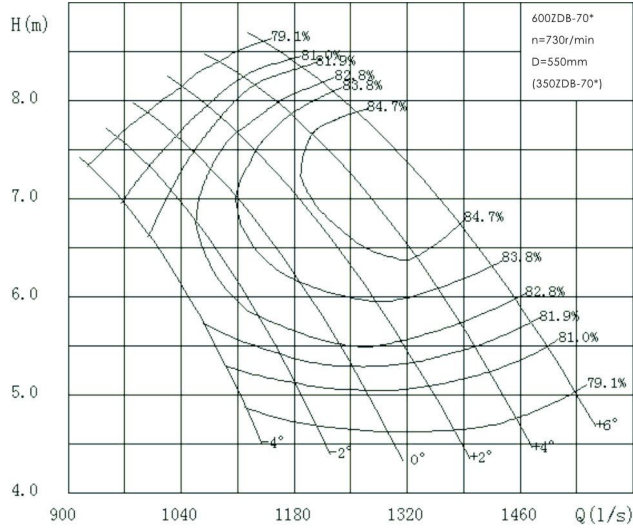
Performance Table of 600ZDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	2812	781	9.02	730	89.96	YQGN	79.81	550
	3222	895	7.47		82.99	462-8	82.20	
	3668	1019	4.86		67.60	95	74.84	
-2°	2981	828	9.15		96.20	YQGN	80.29	
	3434	954	7.56		89.44	YQGN	82.20	
	3917	1088	4.98		76.96	462-8	74.97	
0°	3179	883	9.30		103.7		80.82	
	3884	1079	7.66		96.82	110	82.20	
	4180	1161	5.12		80.39		75.42	
+2°	3391	942	9.48		112.4	YQGN	71.05	
	3902	1084	7.78		104.5	YQGN	82.20	
	4421	1228	5.25		88.09	462-8	74.71	
+4°	3665	1018	9.73	124.4		81.23		
	4180	1161	7.92	114.2		82.20		
	4666	1296	5.40	95.89	132	74.41		

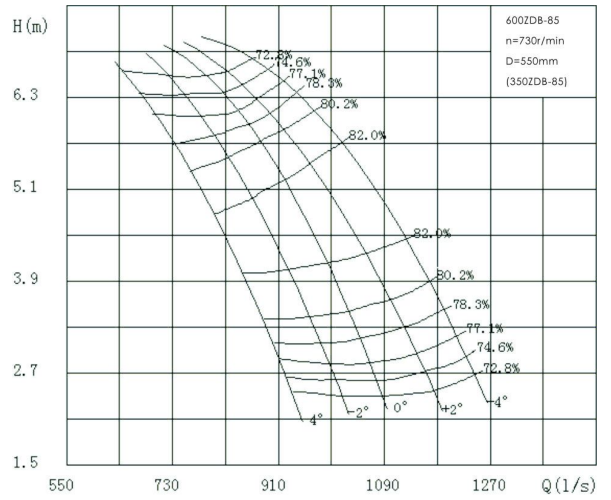
Performance Table of 600ZDB-70 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	2232	620	6.40	730	52.00		77.80	550
	2621	728	4.54		47.70		80.93	
	2797	777	3.62		35.88	YQGN	79.88	
-2°	2408	669	6.46		55.95		78.81	
	2869	797	4.65		46.49	462-8	81.50	
	3071	853	3.75		40.04		81.45	
0°	2556	710	6.52		60.01	65	78.77	
	3056	849	4.74		50.44		81.50	
	3283	912	3.86		43.99		81.50	
+2°	2808	780	6.63		66.87	YQGN	78.87	
	3323	923	4.88		56.37	462-8	81.50	
	3553	987	4.00		49.40	75	81.50	
+4°	3002	834	6.71	73.32	YQGN	77.90		
	3510	975	4.98	60.74	462-8	81.50		
	3726	1035	4.10	53.14	80	81.50		

Performance Curve of 600ZDB-70* Electric Submersible Pump



Performance Curve of 600ZDB-85 Electric Submersible Pump



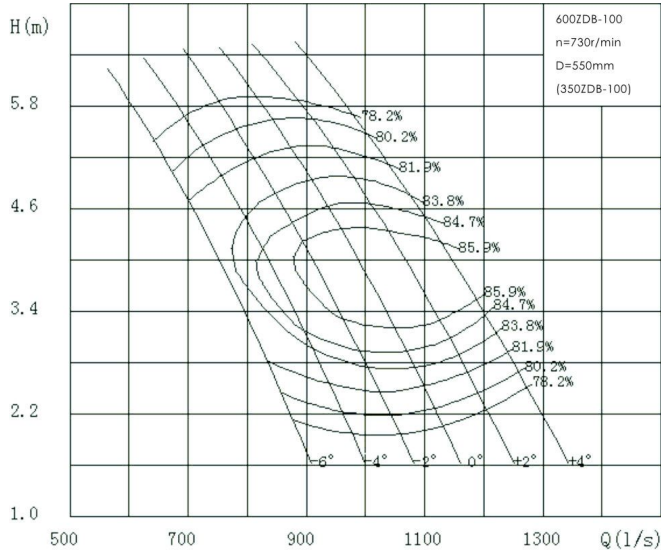
Performance Table of 600ZDB-70* Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	3290	914	7.42	730	88.2	YQGN	78.45	550
	3715	1032	6.23		79.8	462-8	82.32	
	4064	1129	4.72		69.2	95	78.36	
-2°	3492	970	7.59		94.0	YQGN	79.67	
	3924	1090	6.4		85.6	462-8	82.24	
	4298	1194	4.92		74.9	110	80.02	
0°	3686	1024	7.71		100.2	462-8	80.45	
	4144	1151	6.58		91.9	110	84.03	
	4903	1362	5.14		81.3	110	81.44	
+2°	3895	1082	7.88		106.6	462-8	81.6	
	4352	1209	6.77		98.6	YQGN	84.7	
	4774	1326	5.37		88.5	110	82.03	
+4°	4126	1146	8.07	115.0	462-8	82.14		
	4597	1277	6.99	107.5	110	84.7		
	5018	1394	5.62	97.1	110	82.3		
+6°	4334	1204	8.25	123.1	132	82.36		
	4817	1338	7.21	116.2	132	84.7		
	5263	1462	5.88	106.4	132	82.42		

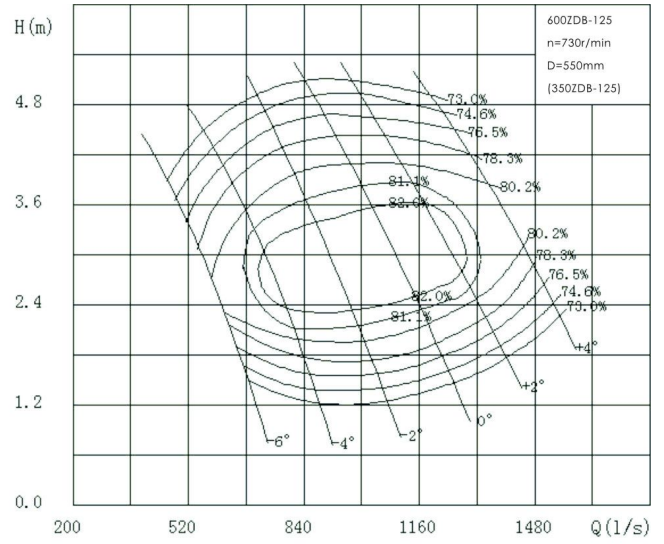
Performance Table of 600ZDB-85 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	2560	711	5.98	730	57.2	YQGN	77.3	550
	2984	829	4.35		45.7	462-8	82.0	
	3391	942	2.26		31.0	65	71.64	
-2°	2783	773	6.12		64.1	YQGN	76.65	
	3229	897	4.53		51.5	462-8	82.0	
	3650	1014	2.48		35.6	75	73.32	
0°	2984	829	6.25		71.3	YQGN	75.55	
	3449	958	4.71		57.1	462-8	82.0	
	3866	1074	2.67		39.5	80	75.28	
+2°	3114	865	6.35		75.0	YQGN	76.06	
	3643	1012	4.87		62.6	462-8	82.0	
	4129	1147	2.92		45.7	85	76.22	
+4°	3316	921	6.50	80.6	YQGN	77.18		
	3877	1077	5.08	69.3	462-8	82.0		
	4374	1215	3.16	52.0	95	76.66		

Performance Curve of 600ZDB-100 Electric Submersible Pump



Performance Curve of 600ZDB-125 Electric Submersible Pump



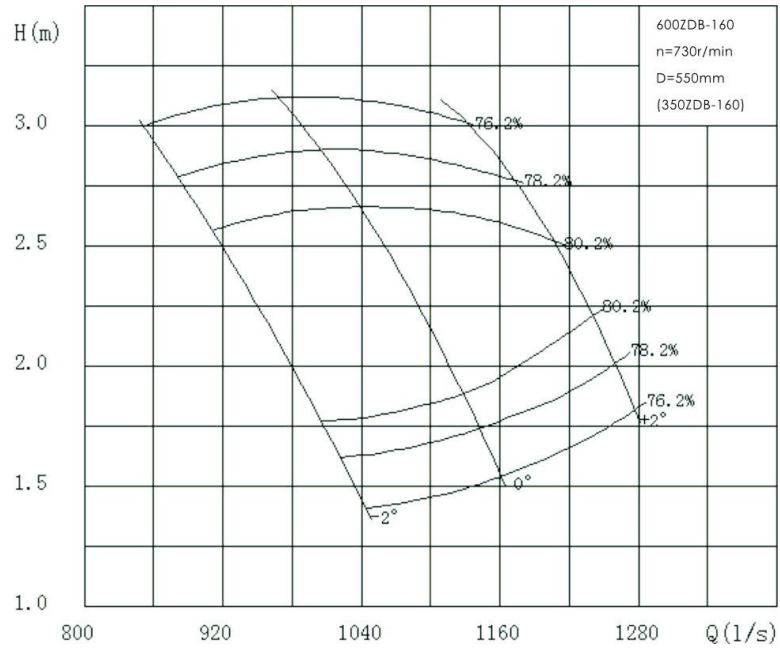
Performance Table of 600ZDB-100 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	2488	691	4.81	730	42.6	YQGN	81.22	550
	2916	810	3.17		32.1		83.36	
	3233	898	1.8		22.5		74.48	
-4°	2732	759	4.95		47.7	462-8	82.06	
	3182	884	3.36		36.0	55	85.62	
	3510	975	2.01		25.7	79.0		
-2°	2952	820	5.10		52.7	YQGN	82.46	
	3406	946	3.53		40.4	85.9		
	3748	1041	2.21		29.8	80.4		
0°	3172	881	5.25		58.3	462-8	82.43	
	3640	1011	3.72		45.4	65	85.9	
	3985	1107	2.42		34.4	80.98		
+2°	3373	937	5.4		64.5	YQGN	81.63	
	3870	1075	3.91		51.0	462-8	85.9	
	4234	1176	2.65		39.7	75	81.65	
+4°	3578	994	5.56		72.6	YQGN	79.22	
	4090	1136	4.11		56.6	462-8	85.9	
	4471	1242	2.89		45.6	80	81.95	

Performance Table of 600ZDB-125 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	1800	500	3.57	730	24.9	YQGN	75.47	550
	2293	637	2.10		18.0	462-8	78.24	
	2628	730	0.89		9.0	30	75.95	
-4°	2329	647	3.82		33.0	YQGN	78.65	
	2833	787	2.42		24.4	462-8	82.0	
	3172	881	1.24		15.8	37	73.41	
-2°	2866	796	4.14		43.7	YQGN	79.32	
	3355	932	2.79		33.3	462-8	82.0	
	3719	1033	1.68		23.3	55	78.17	
0°	3326	924	4.47		55.6	YQGN	77.84	
	3859	1072	3.21		44.0	462-8	82.0	
	4259	1183	2.18		33.7	65	80.2	
+2°	3676	1021	4.75		67.0	YQGN	76.04	
	4244	1179	3.56		53.8	462-8	82.0	
	4680	1300	2.61		44.0	75	80.92	
+4°	4136	1149	5.16		88.1	YQGN	70.65	
	4748	1319	4.08		71.5	462-8	79.08	
	5184	1440	3.18		59.7	95	80.44	

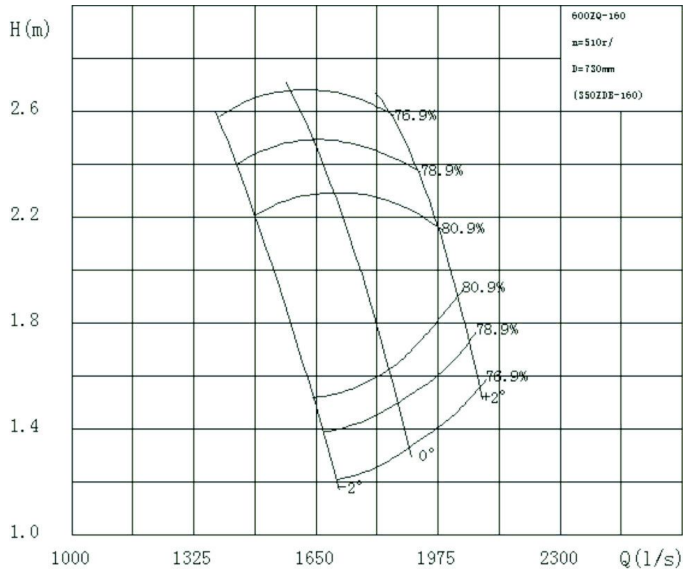
Performance Curve of 600ZDB-160 Electric Submersible Pump



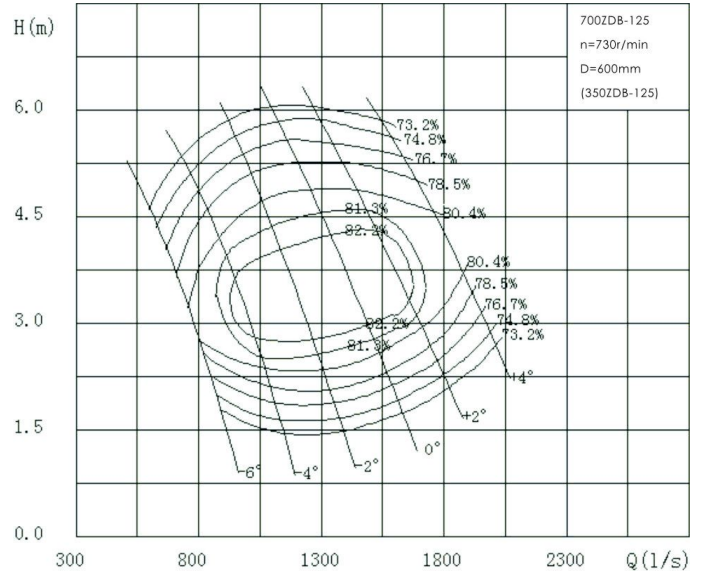
Performance Table of 600ZDB-160 Electric Submersible Pump

Installation angel of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-2°	3222	895	2.69	730	32.1	YQGN	78.67	550
	3492	970	2.15		28.9	462-8	80.2	
	3701	1028	1.57		21.6	37	78.24	
0°	3578	994	2.97		40.0	YQGN	77.31	
	3938	1094	2.21		31.7	462-8	80.2	
	4090	1136	1.80		27.0	45	79.43	
+2°	3870	1075	3.21		48.9	YQGN	74.3	
	4392	1220	2.48		39.3	462-8	80.2	
	4511	1253	2.08		34.6	55	79.39	

Performance Curve of 600ZDB-160(ϕ 510) Electric Submersible Pump



Performance Curve of 700ZDB-125 Electric Submersible Pump



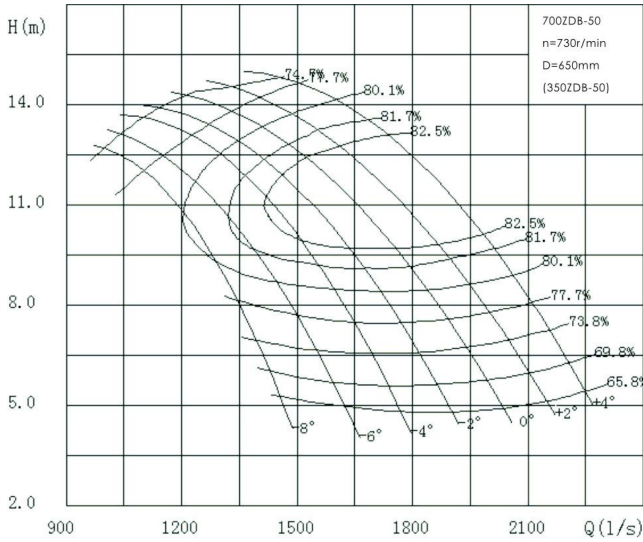
Performance Table of 600ZDB-160(ϕ 510) Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-2°	2459	683	2.54	730	24.08	YQGN	75.68	510
	2808	780	1.73		17.76		79.90	
	2920	811	1.43		15.41		79.10	
0°	2786	774	2.67		28.57	368-8	75.90	
	3154	876	1.88		21.61		79.90	
	3258	905	1.58		18.83		79.60	
+2°	3002	834	2.76		33.06	YQGN	73.10	
	3510	975	2.06		26.32		79.90	
	3607	1002	1.76		23.54		37	

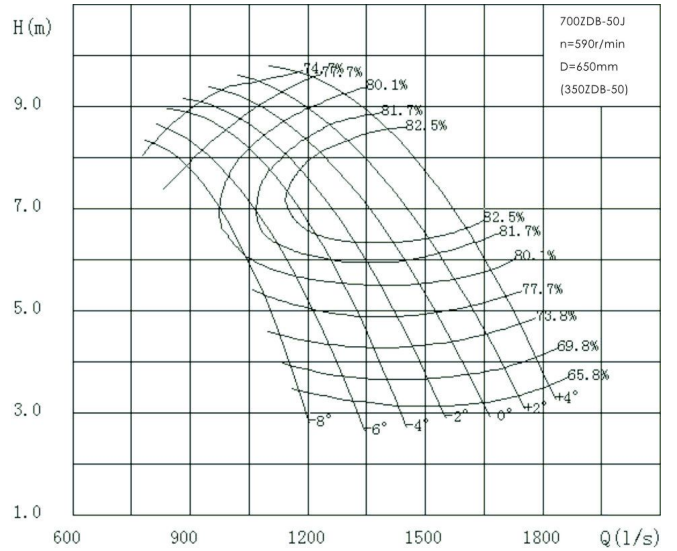
Performance Table of 700ZDB-125 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			Shaft power	Motor power			
-4°	2916	810	4.80	730	52.86	YQGN	77.23	600	
	3539	983	3.29		41.30		520-8		82.20
	4068	1130	1.68		26.54		65		75.01
-2°	3704	1029	4.98		67.84	YQGN	79.26		
	4291	1192	3.50		53.18		520-8		82.20
	4856	1349	1.93		35.10		80		77.62
0°	4381	1217	5.17		83.89	YQGN	78.73		
	5040	1400	3.74		66.88		520-8		82.20
	5681	1578	2.23		47.72		95		77.27
+2°	4943	1373	5.36		98.98	YQGN	78.00		
	5659	1572	3.97		79.72		520-8		82.20
	6361	1767	2.52		60.78		110		76.78
+4°	5702	1584	5.64		125.83	YQGN	74.53		
	6462	1795	4.31		99.94		520-8		81.30
	7153	1987	2.89		80.04		132		75.37

Performance Curve of 700ZDB-50 Electric Submersible Pump



Performance Curve of 700ZDB-50J Electric Submersible Pump



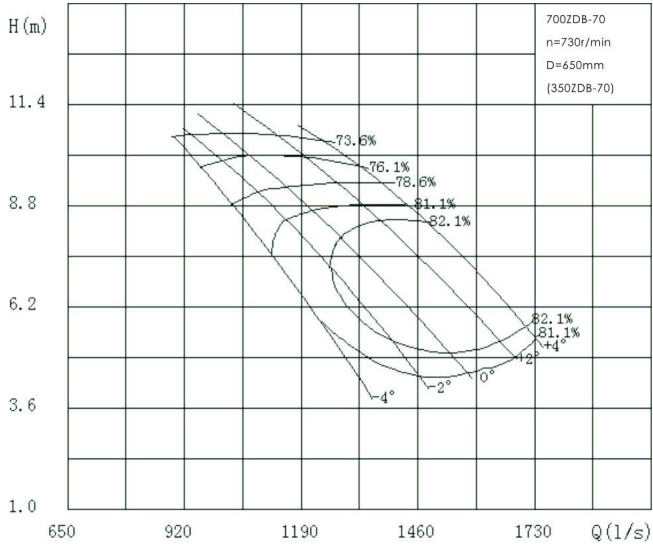
Performance Table of 700ZDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	4691	1303	12.5	730	206.4	YQGN	80.54	650
	5418	1505	10.1		187.0	520-8	82.50	
	6012	1670	7.05		163.4	220	76.40	
-2°	4982	1384	12.6		220.3	YQGN	80.98	
	5771	1603	10.2		201.6	520-8	82.50	
	6422	1784	7.19		171.3	250	76.47	
0°	5324	1479	12.8		237.0	520-8	81.57	
	6163	1712	10.3		218.1	250	82.50	
	6858	1905	7.36		186.7	650-8	76.61	
+2°	5692	1581	13.0		256.5	YQGN	81.88	
	6556	1821	10.4		235.1	650-8	82.50	
	7258	2016	7.52		204.1	285	75.83	
+4°	9174	1715	13.3	283.4	650-8	82.12		
	7016	1949	10.6	256.2	285	82.50		
	7672	2131	7.70	221.8	650-8	75.48		

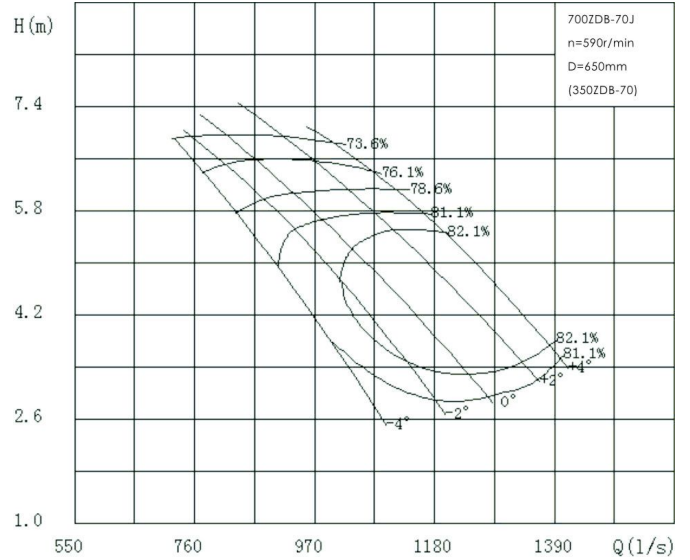
Performance Table of 700ZDB-50J Electric Submersible Pump

Installation angle of blade	Flow (Q)		(m) Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	3866	1074	8.01	590	108.2	YQGN	81.07	650
	4363	1212	6.62		99.12		82.50	
	4986	1385	4.00		78.00		72.50	
-2°	4097	1138	8.11		115.4	520-10	81.52	
	4644	1290	6.70		106.8		82.50	
	5324	1479	4.12		85.49		72.63	
0°	4370	1214	8.23		124.3	132	82.04	
	4957	1377	6.79		115.7		82.50	
	5684	1579	4.24		93.91		72.75	
+2°	4666	1296	8.37		134.6	YQGN	82.27	
	5270	1464	6.90		124.9		82.50	
	6008	1669	4.37		102.8		72.38	
+4°	5051	1403	8.57	148.8	520-10	82.43		
	5645	1568	7.03	136.2		82.50		
	6329	1758	4.49	111.8		72.09		

Performance Curve of 700ZDB-70 Electric Submersible Pump



Performance Curve of 700ZDB-70J Electric Submersible Pump



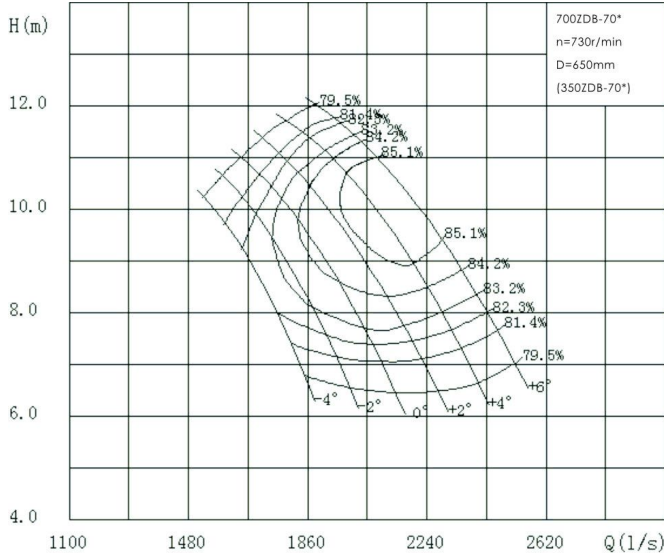
Performance Table of 700ZDB-70 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)			
	(m ³ /h)	(l/s)			轴功率 Shaft power	电机功率 Motor power					
-4°	3686	1024	8.93	730	119.3	YQGN	78.23	650			
	4147	1152	7.10		102.9	520-8	81.17				
	4694	1304	4.71		78.62	132	79.77				
-2°	3964	1101	9.05		128.4	YQGN	79.09		650		
	4518	1255	7.27		113.7	520-8	81.89				
	5159	1433	4.86		87.15	155	81.50				
0°	4205	1168	9.15		138.2	520-8	78.97			650	
	4799	1333	7.41		123.0	155	81.89				
	5530	1536	4.99		95.47	155	81.89				
+2°	4604	1279	9.34		154.7	YQGN	78.84				650
	5216	1449	7.63		137.7	520-8	81.89				
	5990	1664	5.16		107.5	180	81.46				
+4°	4907	1363	9.50	170.1	520-8	77.65	650				
	5530	1536	7.81	149.3	180	81.89					
	6271	1742	5.27	116.7	180	80.30					

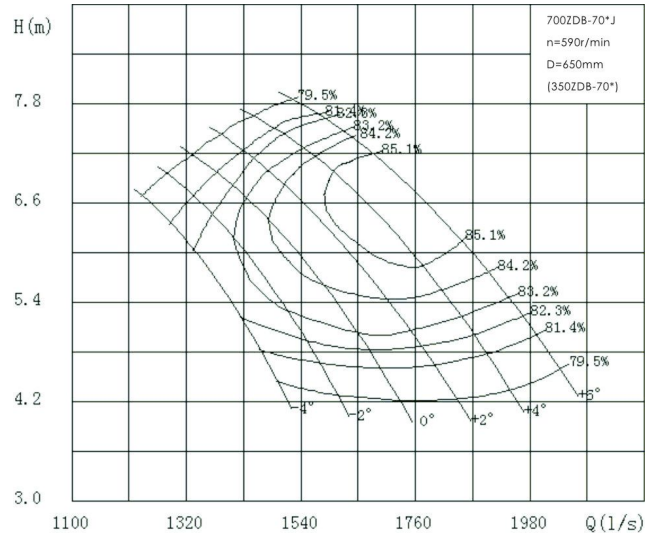
Performance Table of 700ZDB-70J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)			
	(m ³ /h)	(l/s)			Shaft power	Motor power					
-4°	2988	830	5.80	590	62.71	YQGN	78.33	650			
	3557	988	3.93		48.78		81.20				
	3942	1095	2.52		36.09		78.14				
-2°	3229	897	5.85		67.39	520-10	79.49		650		
	3906	1085	4.01		54.29		81.90				
	4327	1202	2.63		40.14		80.39				
0°	3438	955	5.90		72.18	80	79.59			650	
	4172	1159	4.09		59.07		81.90				
	4655	1293	2.73		44.93		80.23				
+2°	3776	1049	5.98		80.29	YQGN	79.68				650
	4532	1259	4.19		65.73		81.90				
	5026	1396	2.85		51.58		78.85				
+4°	4043	1123	6.05	87.67	520-10	79.04	650				
	4784	1329	4.27	70.72		81.90					
	5238	1455	2.93	56.78		76.49					

Performance Curve of 700ZDB-70* Electric Submersible Pump



Performance Curve of 700ZDB-70*J Electric Submersible Pump



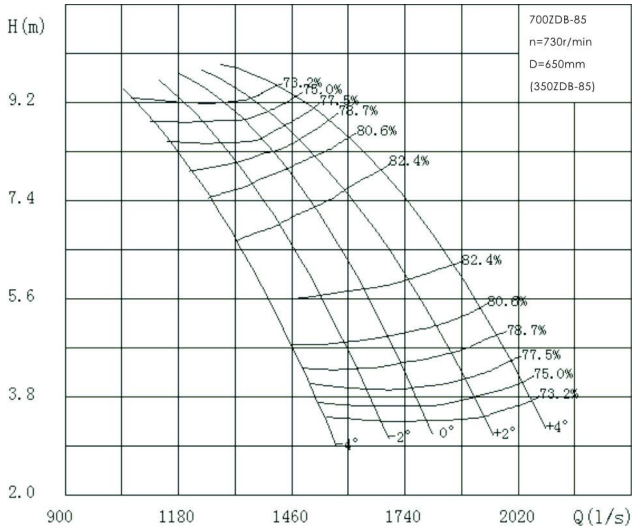
Performance Table of 700ZDB-70* Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	5375	1493	10.5	730	203.2	YQGN	78.30	650
	6088	1691	8.86		184.8		82.70	
	6732	1870	6.48		157.8		78.29	
-2°	5720	1589	10.6		216.7	520-8	79.64	
	6430	1786	9.08		197.8		83.60	
	7128	1980	6.75		170.4		80.07	
0°	6048	1680	10.8		230.7	YQGN	80.50	
	6790	1886	9.31		212.3		84.43	
	7538	2094	7.05		185.0		81.44	
+2°	6397	1777	11.1		245.3	250	81.68	
	7139	1983	9.56		227.2		85.10	
	7927	2202	7.35		201.3		82.04	
+4°	6786	1885	11.3	263.8	YQGN	82.42		
	7553	2098	9.86	248.0		85.10		
	8341	2317	7.69	220.5		280	82.26	

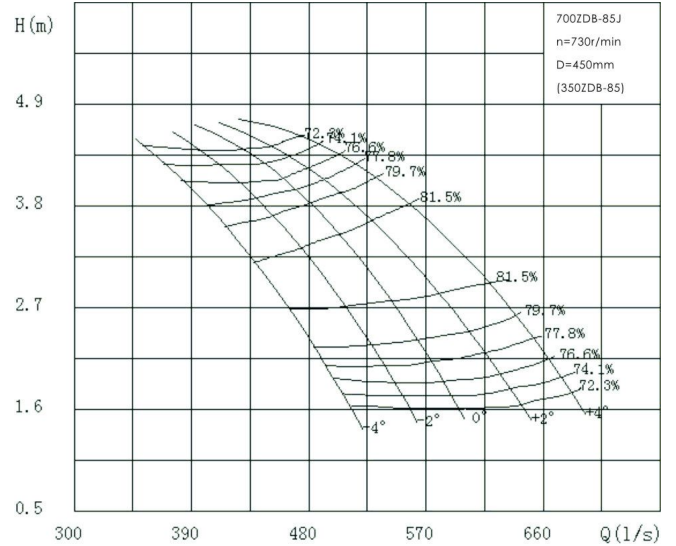
Performance Table of 700ZDB-70*J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	4136	1149	7.06	590	109.8	YQGN	75.42	650
	4918	1366	5.78		97.34		82.68	
	5526	1535	3.94		81.12		76.10	
-2°	4439	1233	7.18		117.6	520-10	76.70	
	5209	1447	5.91		104.3		83.60	
	5879	1633	4.04		85.38		78.76	
0°	4705	1307	7.28		124.1	132	78.29	
	5504	1529	6.05		111.7		84.44	
	6250	1736	4.15		92.77		79.19	
+2°	5008	1391	7.42		132.4	YQGN	79.50	
	5785	1607	6.19		119.3		85.10	
	6613	1837	4.26		100.4		79.56	
+4°	5314	1476	7.56	141.3	520-10	80.53		
	6127	1702	6.37	130.3		85.10		
	6980	1939	4.38	108.8		155	79.63	

Performance Curve of 700ZDB-85 Electric Submersible Pump



Performance Curve of 700ZDB-85J Electric Submersible Pump



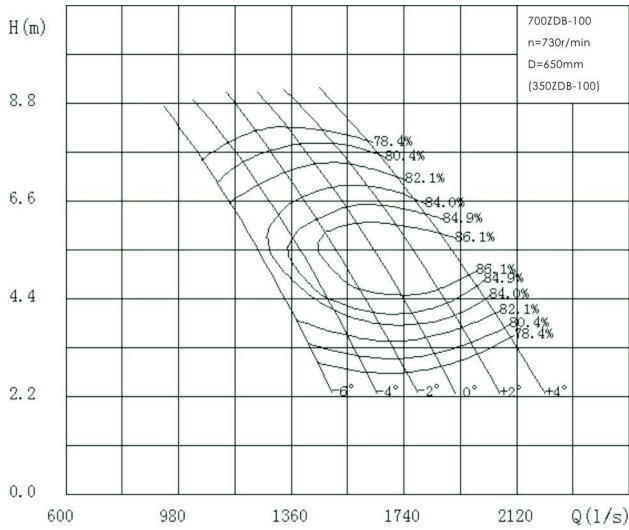
Performance Table of 700ZDB-85 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	4514	1254	7.51	730	121.7	YQGN	80.48	650
	4914	1365	6.12		105.3	520-8	82.4	
	5551	1542	3.36		74.3	132	72.99	
-2°	4900	1361	7.71		135.4	YQGN	80.54	
	5324	1479	6.34		118.4	82.4	82.4	
	5987	1663	3.65		84.5	520-8	74.77	
0°	5260	1461	7.91		148.4	80.91	80.91	
	5688	1580	6.56		131.0	155	82.4	
	6343	1762	3.89		92.6	77.14	77.14	
+2°	5522	1534	8.02		158.8	YQGN	81.01	
	6019	1672	6.78		143.0	82.4	82.4	
	6786	1885	4.21		106.3	520-8	77.59	
+4°	5904	1640	8.30	169.7	81.6	81.6		
	6419	1783	7.05	158.6	180	82.4		
	7189	1997	4.52	120.8	77.69	77.69		

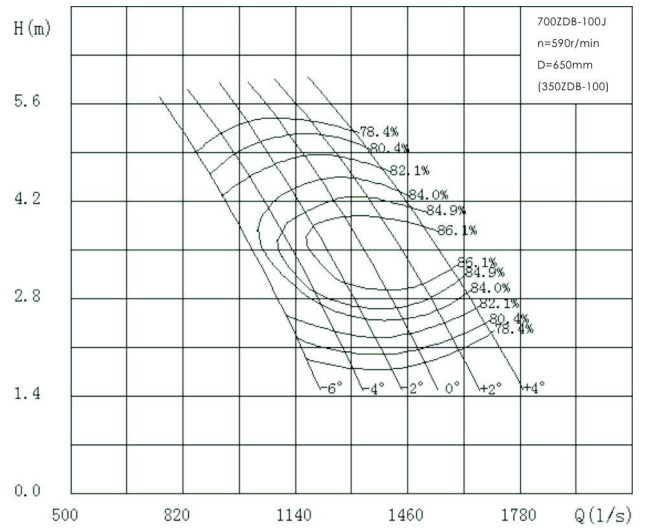
Performance Table of 700ZDB-85J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	3539	983	5.17	590	67.10	YQGN	78.84	650
	4018	1116	3.86		54.38	82.40		
	4507	1252	2.15		38.48	72.78		
-2°	3852	1070	5.29		74.52	520-10	79.03	
	4349	1208	4.01		61.16	80	82.40	
	4871	1353	2.26		43.25	73.57		
0°	4126	1146	5.41		82.26	YQGN	78.40	
	4640	1289	4.15		67.63	82.40	82.40	
	5177	1438	2.36		47.17	74.74		
+2°	4338	1205	5.51		87.03	520-10	79.28	
	4925	1368	4.30		74.20	82.40	82.40	
	5562	1545	2.49		53.21	75.27		
+4°	4558	1266	5.65	94.13	110	80.21		
	5245	1457	4.47	82.26	82.40	82.40		
	5922	1645	2.62	60.31	74.44			

Performance Curve of 700ZDB-100 Electric Submersible Pump



Performance Curve of 700ZDB-100J Electric Submersible Pump



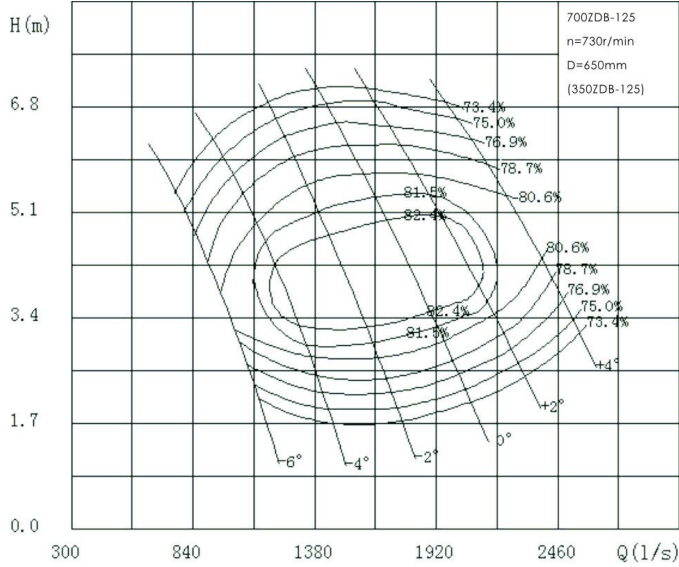
Performance Table of 700ZDB-100 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	4144	1151	6.63	730	96.8	YQGN	81.92	650
	4727	1313	4.75		77.1	520-8	84.16	
	5332	1481	2.53		51.9	110	75.03	
-4°	4547	1263	6.82		108.2	YQGN	82.17	
	5159	1433	4.99		86.2	520-8	86.20	
	5792	1609	2.81		59.2	132	81.75	
-2°	4914	1365	7.0		119.4	520-8	83.28	
	5533	1537	5.2		96.5	132	86.2	
	6196	1721	3.07		68.2	81.06		
0°	5285	1468	7.21		132.2	YQGN	83.18	
	5926	1646	5.44		108.1	520-8	86.2	
	6592	1831	3.34		78.5	80.59		
+2°	5623	1562	7.41	146.4	520-8	82.68		
	6304	1751	5.69	120.3	155	86.2		
	7006	1946	3.65	90.3	79.31			
+4°	5969	1658	7.62	163.6	YQGN	80.32		
	6671	1853	5.95	133.2	520-8	85.98		
	7409	2058	3.96	103.3	180	81.96		

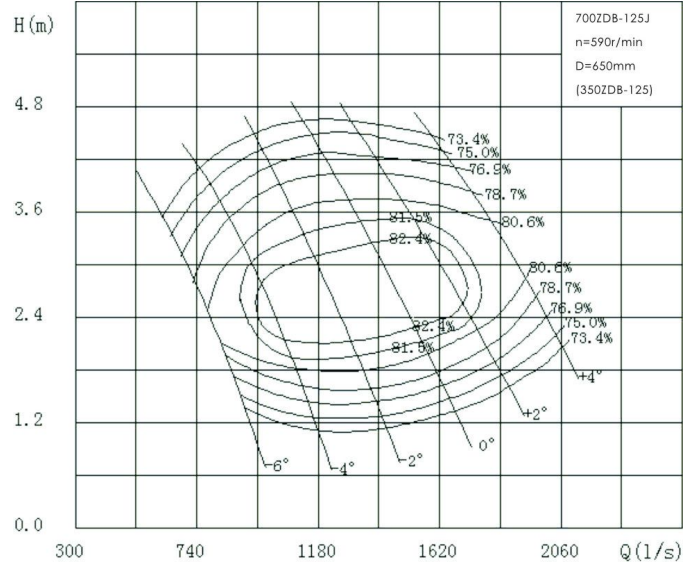
Performance Table of 700ZDB-100J Electric Submersible Pump

Installation angle of blade	Flow (Q)		(m) Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	3308	919	4.40	590	51.62	YQGN	81.36	650
	3848	1069	3.01		39.86	520-10	83.89	
	4362	1184	1.80		29.04	76.27		
-4°	3647	1013	4.53		57.98	520-10	82.21	
	4208	1169	3.17		44.84	65	85.78	
	4651	1292	1.91		32.22	79.85		
-2°	3938	1094	4.65		63.92	YQGN	82.69	
	4507	1252	3.31		50.03	520-10	86.10	
	5000	1389	2.03		36.36	80.54		
0°	4234	1176	4.78		70.70	520-10	82.76	
	4824	1340	3.47		56.18	80	86.10	
	5339	1483	2.14		40.92	80.67		
+2°	4511	1253	4.91	78.23	YQGN	81.85		
	5134	1426	3.64	62.65	520-10	86.10		
	5702	1584	2.27	46.32	80.77			
+4°	4784	1329	5.05	87.66	95	79.62		
	5429	1508	3.81	69.43	86.10			
	6066	1685	2.41	52.68	80.34			

Performance Curve of 700ZDB-125 Electric Submersible Pump



Performance Curve of 700ZDB-125J Electric Submersible Pump



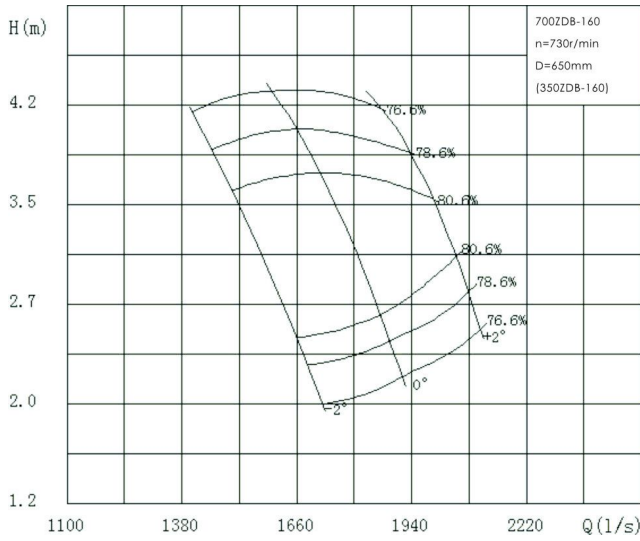
Performance Table of 700ZDB-125 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	2981	828	4.95	730	56.8	YQGN	76	650
	3892	1081	2.63		38.6	520-8	77.43	
	4388	1219	1.08		17.2	65	80.21	
-4°	3881	1078	5.27		75.1	YQGN	79.36	
	4802	1334	3.04		52.0	520-8	81.73	
	5306	1474	1.54		33.1	95	71.76	
-2°	4781	1328	5.67		98.6	YQGN	80.21	
	5688	1580	3.51		70.8	520-8	82.4	
	6239	1733	2.08		49.8	110	76.23	
0°	5573	1548	6.08		119.9	YQGN	78.89	
	6570	1825	4.06		94.5	520-8	82.4	
	7171	1992	2.72		72.3	132	78.78	
+2°	6178	1716	6.45	150.8	YQGN	77.09		
	7250	2014	4.54	116.6	520-8	82.4		
	7909	2197	3.29	95.3	180	79.67		
+4°	6991	1942	6.99	196.9	YQGN	72.4		
	8122	2256	5.22	152.5	520-8	81.18		
	8773	2437	4.03	130.7	220	78.8		

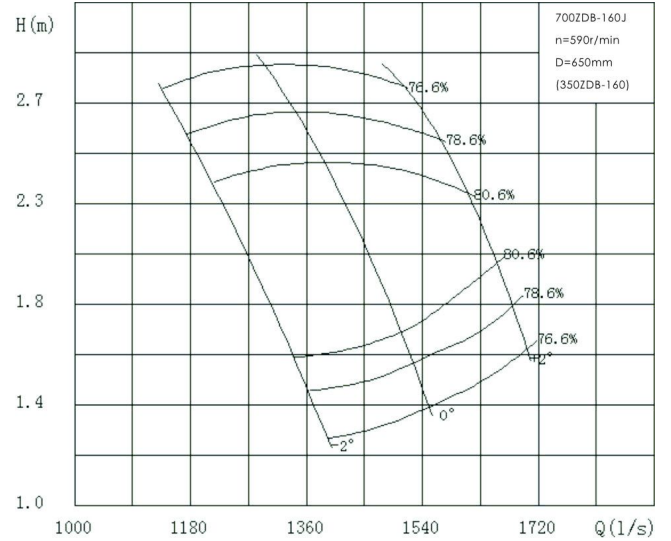
Performance Table of 700ZDB-125J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	2146	596	3.67	590	31.67	YQGN	72.42	650
	3010	836	2.04		22.47	520-10	79.60	
	3388	941	1.13		15.41		72.56	
-4°	2909	808	3.81		42.48	45	76.19	
	3776	1049	2.23		29.85		82.40	
	4158	1155	1.34		21.51		75.69	
-2°	3697	1027	4.01		55.43	YQGN	77.94	
	4518	1255	2.46		39.38	520-10	82.40	
	4928	1369	1.60		29.10	65	79.40	
0°	4345	1207	4.20		68.91	YQGN	77.29	
	5260	1461	2.73		50.83	520-10	82.40	
	5720	1589	1.92		39.91	80	80.20	
+2°	4871	1353	4.38	81.75	YQGN	76.18		
	5857	1627	2.98	61.74		82.40		
	6361	1767	2.21	51.15		80.07		
+4°	5569	1547	4.65	105.6	520-10	71.50		
	6620	1839	3.33	78.97		81.45		
	7117	1977	2.59	68.37		78.52		

Performance Curve of 700ZDB-160 Electric Submersible Pump



Performance Curve of 700ZDB-160J Electric Submersible Pump



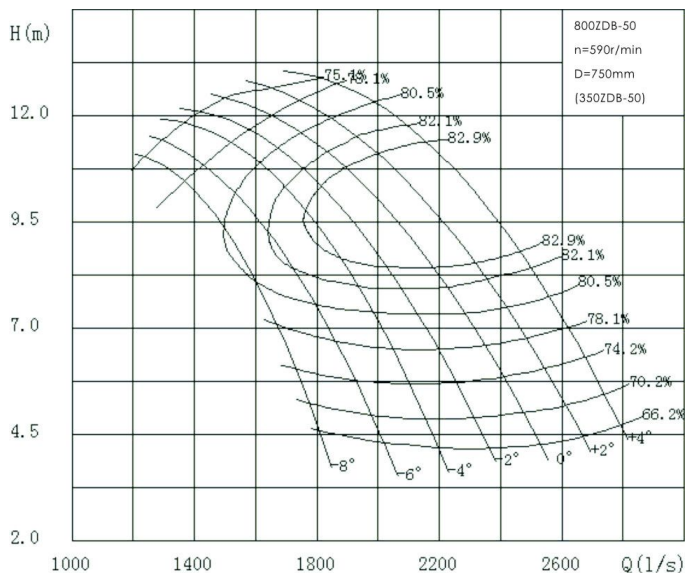
Performance Table of 700ZDB-160 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-2°	5400	1500	3.60	730	70.8	YQGN	80.21	650
	5911	1642	2.60		55.5	520-8	80.70	
	6163	1712	2.06		47.5	80	77.80	
0°	6026	1674	3.97		88.4	YQGN	78.96	
	6544	1818	3.00		71.0	520-8	80.70	
	6778	1883	2.47		61.4	95	79.39	
+2°	6591	1831	4.34		109.8	YQGN	75.94	
	7192	1998	3.47		90.1	520-8	80.70	
	7430	2064	2.94		79.5	132	80.14	

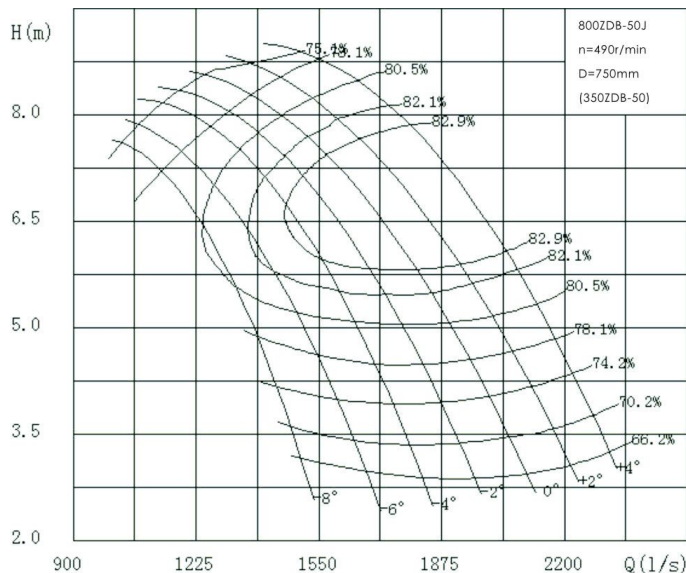
Performance Table of 700ZDB-160J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-2°	4140	1150	2.67	590	41.94	YQGN	76.80	650
	4716	1310	1.81		30.82	520-10	80.60	
	4964	1379	1.37		25.36	45	78.22	
0°	4698	1305	2.80		49.86	YQGN	76.97	
	5292	1470	1.96		37.56	520-10	80.60	
	5522	1534	1.53		31.46	65	78.31	
+2°	5141	1428	2.92		58.74	520-10	74.45	
	5890	1636	2.15		45.69	65	80.60	
	6095	1693	1.71		39.06	65	78.22	

Performance Curve of 800ZDB-50 Electric Submersible Pump



Performance Curve of 800ZDB-50J Electric Submersible Pump



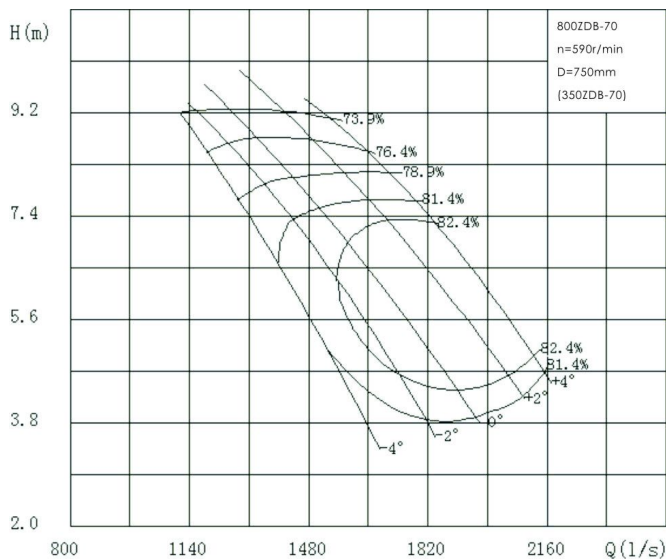
Performance Table of 800ZDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	5656	1571	11.1	590	223.3	YQGN	79.85	750
	6484	1801	9.43		208.9		82.90	
	7686	2135	5.21		156.8		72.40	
-2°	6008	1669	11.3		238.4	740-10	80.43	
	6876	1910	9.58		225.3		82.90	
	8212	2281	5.36		172.0		72.50	
0°	6433	1787	11.4		256.5	YQGN	81.12	
	7315	2032	9.76		244.2		82.90	
	8766	2435	5.52		189.3		72.44	
+2°	6894	1915	11.6		278.1	YQGN	81.46	
	7769	2158	9.96		264.6		82.90	
	9270	2575	5.68		206.7		72.15	
+4°	7499	2083	11.8	307.3	YQGN	81.91		
	8327	2313	10.2	291.2		82.90		
	9763	2712	5.84	225.1		71.73		

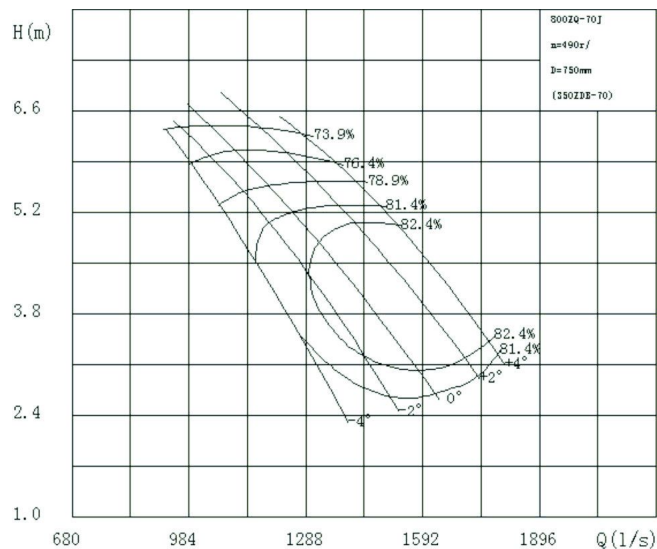
Performance Table of 800ZDB-50J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			轴功率 Shaft power	电机功率 Motor power		
-4°	4565	1268	7.83	490	128.8	YQGN	78.74	750
	5468	1519	6.31		117.9		82.90	
	6419	1783	3.45		87.88		71.39	
-2°	4864	1351	7.92		137.6	740-12	79.29	
	5807	1613	6.42		127.5		82.90	
	6865	1907	3.55		96.72		71.52	
0°	5065	1407	8.02		147.7	155	80.16	
	6170	1714	6.55		138.2		82.90	
	7326	2035	3.67		106.8		71.37	
+2°	5598	1555	8.15		160.5	YQGN	80.57	
	6541	1817	6.70		149.8		82.90	
	7740	2150	3.79		116.5		71.30	
+4°	5378	1494	8.33	177.0	YQGN	81.32		
	7002	1945	6.89	164.8		82.90		
	8147	2263	3.90	127.3		70.79		

Performance Curve of 800ZDB-70 Electric Submersible Pump



Performance Curve of 800ZDB-70J Electric Submersible Pump



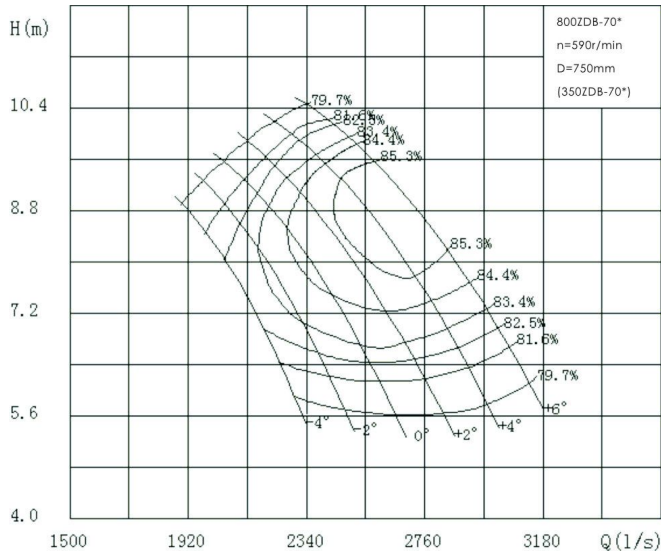
Performance Table of 800ZDB-70 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			轴功率 Shaft power	电机功率 Motor power		
-4°	4637	1288	7.61	590	126.6	YQGN	79.10	750
	5432	1509	5.34		100.8		81.65	
	5983	1662	3.60		77.06		79.09	
-2°	4997	1388	7.71		136.2	740-10	80.20	
	5936	1649	5.51		112.6		82.30	
	6577	1827	3.72		85.49		81.14	
0°	5303	1473	7.80		146.3	155	80.17	
	6318	1755	5.64		122.7		82.30	
	7074	1965	3.83		94.74		81.14	
+2°	5800	1611	7.96		163.5	YQGN	80.08	
	6844	1901	5.84		137.7		82.30	
	7646	2124	3.97		107.5		80.07	
+4°	6192	1720	8.10	179.3	740-10	79.22		
	7222	2006	5.99	149.0		82.30		
	7981	2217	4.06	117.8		77.90		

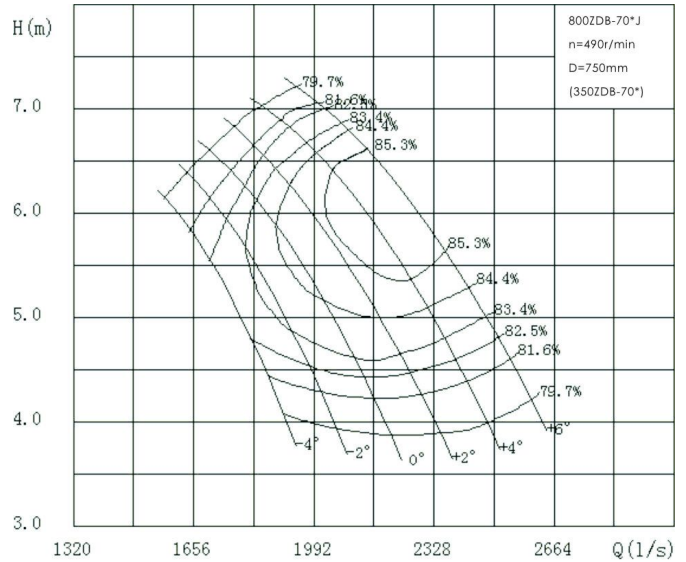
Performance Table of 800ZDB-70J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	3550	986	5.90	490	77.79	YQGN	76.25	750
	4345	1207	4.10		61.78		81.70	
	4795	1332	2.95		49.71		80.48	
-2°	3762	1045	5.95		82.78	740-12 90	76.63	
	4734	1315	4.21		68.64		82.30	
	5267	1463	3.04		55.22		82.11	
0°	4007	1113	6.01		89.23	YQGN	76.42	
	5029	1397	4.30		74.46		82.30	
	5645	1568	3.12		60.63		82.30	
+2°	4399	1222	6.12		100.6	YQGN	75.84	
	5454	1515	4.45		83.51		82.30	
	6109	1697	3.22		67.81		82.30	
+4°	4680	1300	6.20	110.8	YQGN	74.20		
	5771	1603	4.56	90.58		82.30		
	6408	1780	3.29	73.32		81.56		

Performance Curve of 800ZDB-70* Electric Submersible Pump



Performance Curve of 800ZDB-70*J Electric Submersible Pump



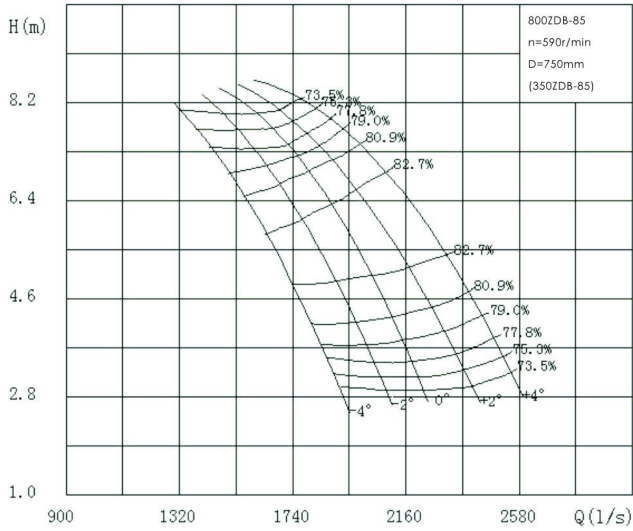
Performance Table of 800ZDB-70* Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	(kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	6530	1814	9.24	590	221.4	YQGN	77.26	750
	7452	2070	7.91		202.0		82.72	
	8284	2301	5.88		173.0		79.76	
-2°	7045	1957	9.33		235.1	740-10	79.24	
	7927	2202	8.00		214.8		83.71	
	8806	2446	5.99		185.4		80.63	
0°	7510	2086	9.42		248.4	YQGN	80.75	
	8428	2341	8.11		228.7		84.63	
	9367	2602	6.12		199.3		81.53	
+2°	8010	2225	9.52		262.4	740-10	82.37	
	8910	2475	8.21		243.2		85.30	
	9907	2752	6.25		214.7		81.78	
+4°	8582	2384	9.64		280.5	YQGN	83.63	
	9497	2638	8.35		263.4		85.30	
	10476	2910	6.40		232.4		81.78	

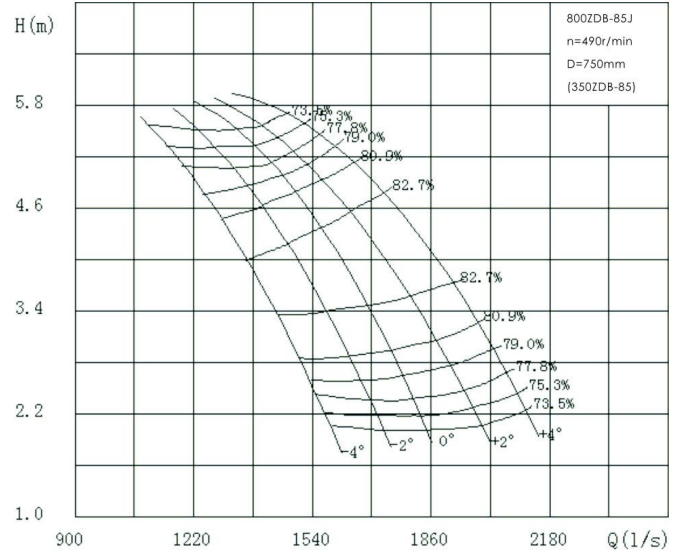
Performance Table of 800ZDB-85 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	5598	1555	6.23	490	125.2	YQGN	78.95	750
	6210	1725	5.42		115.2		82.77	
	7006	1946	3.73		95.78		77.30	
-2°	5951	1653	6.34		133.1	740-12	80.28	
	6566	1824	5.54		123.2		83.69	
	7448	2069	3.82		101.7		79.40	
0°	6293	1748	6.45		141.8	155	81.17	
	6944	1929	5.68		132.1		84.60	
	7920	2200	3.93		110.3		79.99	
+2°	6649	1847	6.57		150.4	YQGN	82.34	
	7279	2027	5.81		140.9		85.30	
	8370	2325	4.04		119.2		80.45	
+4°	7052	1959	6.72		161.8	740-12	82.96	
	7722	2145	5.98		153.5		85.30	
	9934	2454	4.16		129.3		80.58	
+6°	7438	2066	6.87		173.5	180	93.48	
	8114	2254	6.15		165.8		85.30	
	9320	2589	4.29		141.4		80.13	

Performance Curve of 800ZDB-85 Electric Submersible Pump



Performance Curve of 800ZDB-85J Electric Submersible Pump



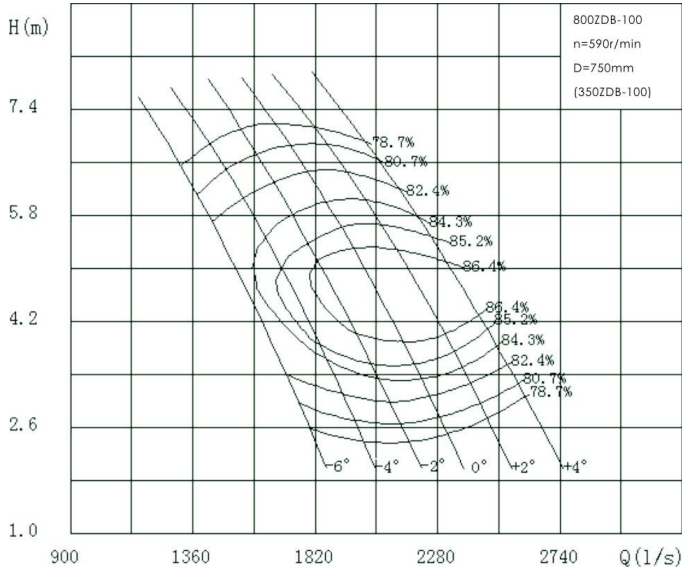
Performance Table of 800ZDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	5270	1464	7.22	590	140.7	YQGN	78.12	750
	6088	1691	5.35		113.8	740-10	82.70	
	6674	1854	3.67		89.89	155	78.66	
-2°	5782	1606	7.30		156.0	YQGN	78.10	
	6638	1844	5.46		126.6		82.70	
	7240	2011	3.78		100.2	740-10	79.04	
0°	6235	1732	7.38		171.3		77.61	
	7117	1977	5.56		138.2	180	82.70	
	7715	2143	3.89		109.5		79.22	
+2°	6588	1830	7.45		180.0	YQGN	78.79	
	7596	2110	5.66		150.3	740-10	82.70	
	8284	2301	4.03		122.0	200	79.02	
+4°	7078	1966	7.55	192.4	YQGN	80.26		
	8136	2260	5.79	164.5	740-10	82.70		
	8838	2455	4.17	134.8	220	78.92		

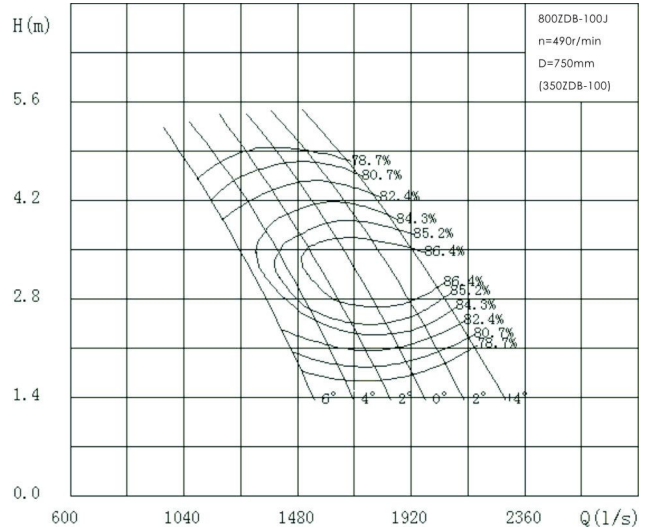
Performance Table of 800ZDB-85J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	4338	1205	5.04	490	80.98	YQGN	77.95	750
	5072	1409	3.66		64.87	740-12	82.70	
	5537	1538	2.55		51.62	90	78.92	
-2°	4756	1321	5.10		90.42	YQGN	77.58	
	5522	1534	3.75		72.30		82.70	
	5998	1666	2.64		57.88	740-12	79.15	
0°	5119	1422	5.17		99.53		76.81	
	5915	1643	3.83		79.08	740-12	82.70	
	6390	1775	2.73		63.39		79.47	
+2°	5400	1500	5.22		104.3	110	78.11	
	6307	1752	3.91		86.18		82.70	
	6854	1904	2.84		70.91		79.31	
+4°	5792	1609	5.30	111.7	YQGN	79.37		
	6746	1874	4.01	94.55	740-12	82.70		
	7304	2029	2.95	78.86	132	79.00		

Performance Curve of 800ZDB-100 Electric Submersible Pump



Performance Curve of 800ZDB-100J Electric Submersible Pump



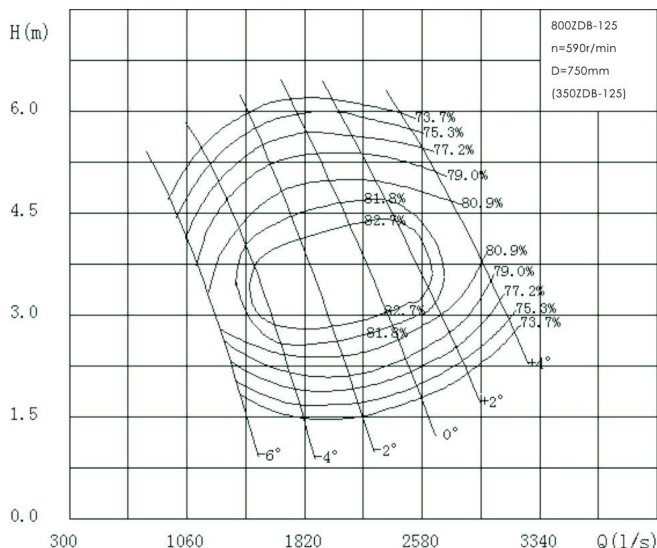
Performance Table of 800ZDB-100 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			Shaft power	Motor power			
-6°	4936	1371	6.15	590	109.0	YQGN	80.45	750	
	5836	1621	4.19		83.53		84.51		
	5213	1448	2.79		64.66		79.70		
-4°	5494	1526	6.23		120.6	740-10	82.01		750
	6430	1786	4.29		92.54		86.17		
	7009	1947	2.90		71.66		82.00		
-2°	5983	1662	6.31		132.3	YQGN	82.49		750
	6937	1927	4.39		101.8		86.40		
	7553	2098	3.02		79.82		82.40		
0°	6484	1801	6.40		144.7	740-10	82.86		750
	7466	2074	4.50		112.3		86.40		
	8078	2244	3.13		88.40		82.78		
+2°	6959	1933	6.49	158.6	YQGN	82.26	750		
	8003	2223	4.62	123.5		86.40			
	8647	2402	3.27	99.32		82.25			
+4°	7441	2067	6.59	175.5	740-10	80.72	750		
	8528	2369	4.74	135.2		86.40			
	9220	2561	3.42	110.9		82.08			

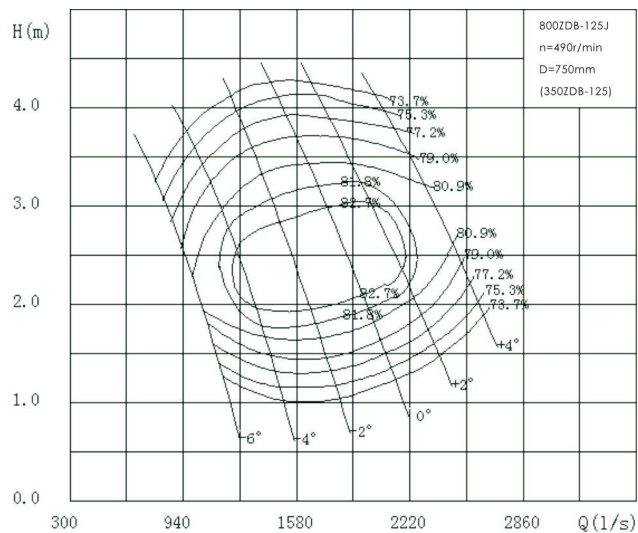
Performance Table of 800ZDB-100J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			Shaft power	Motor power			
-6°	4079	1133	4.28	490	62.86	YQGN	80.23	750	
	4889	1358	2.80		46.96		84.31		
	5335	1482	1.88		36.46		79.34		
-4°	4529	1258	4.35		69.54	740-12	81.79		750
	5378	1494	2.89		52.15		86.06		
	5832	1620	1.97		40.60		81.85		
-2°	4928	1369	4.41		76.43	YQGN	82.15		750
	5792	1609	2.97		57.45		86.40		
	6278	1744	2.07		45.47		82.32		
0°	5339	1483	4.48		83.85	740-12	82.36		750
	6228	1730	3.05		63.60		86.40		
	6710	1864	2.16		50.56		82.74		
+2°	5720	1589	4.55	91.80	YQGN	81.98	750		
	6664	1851	3.15	70.17		86.40			
	7175	1993	2.27	57.13		82.34			
+4°	6113	1698	4.63	102.2	740-12	80.01	750		
	7096	1971	3.25	77.06		86.40			
	7636	2121	2.39	63.92		82.26			

Performance Curve of 800ZDB-125 Electric Submersible Pump



Performance Curve of 800ZDB-125J Electric Submersible Pump



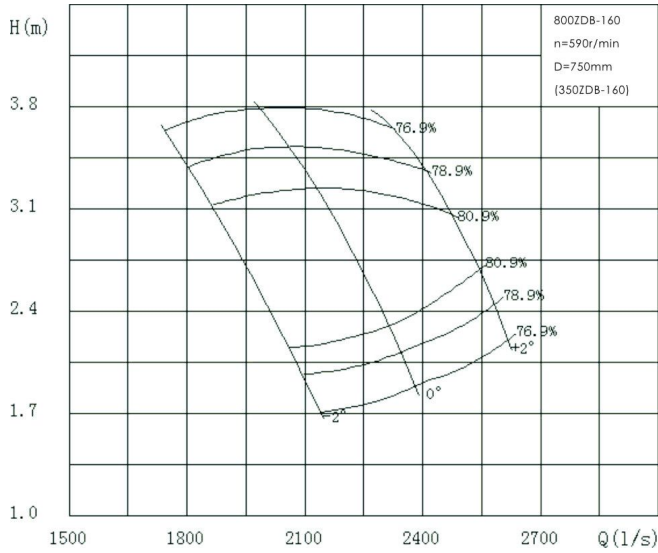
Performance Table of 800ZDB-125 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	3449	958	4.68	590	63.56	YQGN	74.04	750
	4421	1228	3.10		48.69	740-10	81.99	
	5119	1422	1.70		34.56	80	73.24	
-4°	4655	1293	4.83		83.78	YQGN	78.24	
	5634	1565	3.28		65.16	740-10	82.7	
	6332	1759	1.91		45.90	90	76.75	
-2°	5882	1634	5.02		107.6	YQGN	80.09	
	6811	1892	3.50		84.10	740-10	82.7	
	7556	2099	2.17		59.71	132	79.91	
0°	6948	1930	5.23		133.3	YQGN	79.47	
	7985	2218	3.77		106.0	740-10	82.70	
	8827	2452	2.48		79.82	155	80.02	
+2°	7834	2176	5.43		157.6	YQGN	78.73	
	8968	2491	4.02		127.0	740-10	82.70	
	9889	2747	2.78		101.3	180	79.23	
+4°	9025	2507	5.73		200.6	YQGN	75.20	
	10217	2838	4.38		159.5	740-10	81.82	
	11131	3092	3.18		133.8	200	77.11	

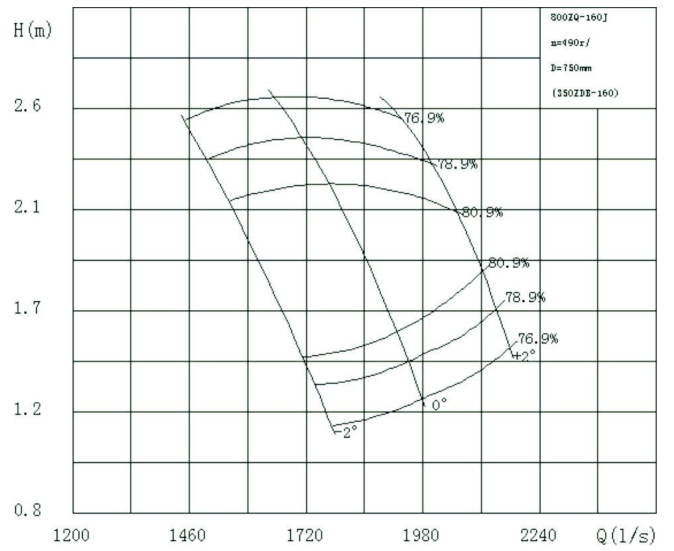
Performance Table of 800ZDB-125J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			Shaft power	Motor power			
-6°	2920	811	3.16	490	36.06	YQGN	74.62	750	
	3719	1033	2.06		27.29		81.89		
	4414	1226	0.86		15.30		72.67		
-4°	3910	1086	3.29		47.62	740-12	78.71		
	4712	1309	2.22		36.81		82.70		
	5407	1502	1.05		22.36		73.92		
-2°	4896	1360	3.45		61.42	YQGN	80.18		
	5666	1574	2.40		47.94		740-12		82.70
	6419	1783	1.27		30.92		65		76.99
0°	5760	1600	3.62		76.61	YQGN	79.39		
	6620	1839	2.62		61.20		740-12		82.70
	7466	2074	1.54		43.44		90		77.25
+2°	6469	1797	3.78		91.06	YQGN	78.39		
	7398	2055	2.82		73.62		740-12		82.70
	8320	2311	1.79		56.07		110		77.59
+4°	7412	2059	4.03		116.84	YQGN	74.48		
	8392	2331	3.12		93.52		740-12		81.55
	9306	2585	2.12		75.01		132		76.72

Performance Curve of 800ZDB-160 Electric Submersible Pump



Performance Curve of 800ZDB-160J Electric Submersible Pump



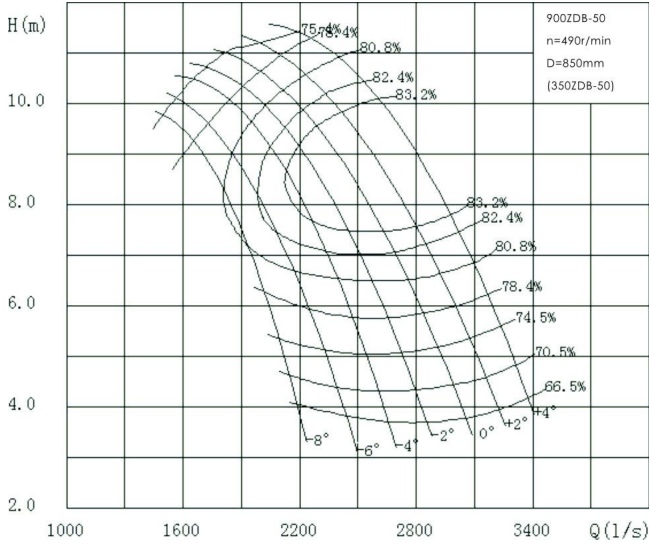
Performance Table of 800ZDB-160 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-2°	6656	1849	3.19	590	77.36	YQGN	79.99	750
	7186	1996	2.48		64.31	740-10	80.90	
	7661	2128	1.78		50.93	90	78.03	
0°	7567	2102	3.36		92.77	YQGN	79.92	
	8093	2248	2.67		77.79	740-10	80.90	
	8528	2369	1.96		62.60	110	77.97	
+2°	8485	2357	3.55		113.0	YQGN	77.83	
	9036	2510	2.88		93.84	740-10	80.90	
	9428	2619	2.18		76.93	132	77.91	

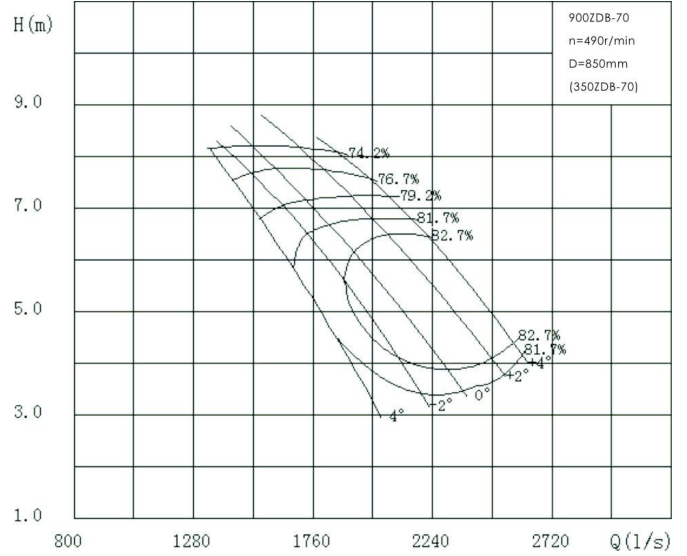
Performance Table of 800ZDB-160J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-2°	5458	1516	2.27	490	45.69	YQGN	79.17	750
	5933	1648	1.76		37.56	740-12	80.90	
	6217	1727	1.41		31.87	55	80.34	
0°	6192	1720	2.41		55.00	YQGN	79.02	
	6671	1853	1.90		45.80	740-12	80.90	
	6937	1927	1.56		38.09	65	80.89	
+2°	6897	1916	2.55		66.88	YQGN	76.75	
	7434	2065	2.07		55.53	740-12	80.90	
	7686	2135	1.73		48.69	80	79.90	

Performance Curve of 900ZDB-50 Electric Submersible Pump



Performance Curve of 900ZDB-70 Electric Submersible Pump



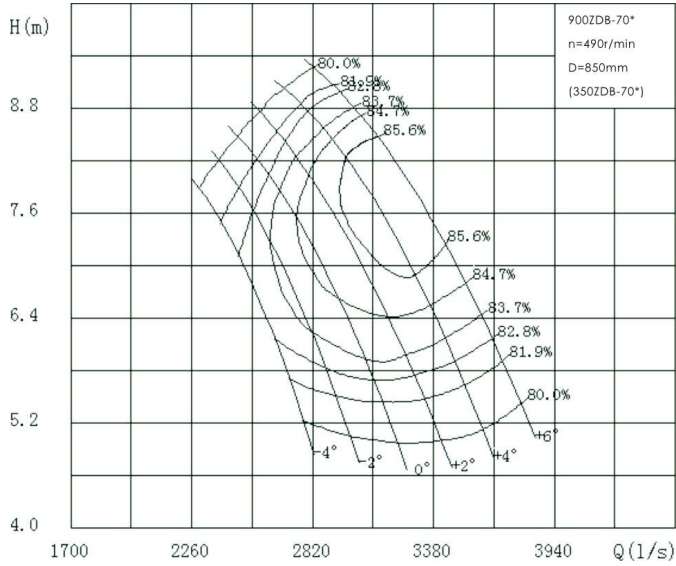
Performance Table of 900ZDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	6664	1851	10.0	490	239.6	YQGN	79.13	850
	7895	2193	8.24		221.5	740-12	83.20	
	9166	2546	5.01		174.8	250	74.42	
-2°	7099	1972	10.1		255.9	YQGN	79.71	
	8381	2328	8.37		238.9	740-12	83.20	
	9770	2714	5.19		191.9	280	74.88	
0°	7621	2117	10.3		274.8	YQGN	80.71	
	8921	2478	8.52		259.0	740-12	83.20	
	10404	2890	5.39		209.8	315	75.71	
+2°	8197	2277	10.4		298.4	YQGN	81.10	
	9472	2631	8.69		280.5	740-12	83.20	
	10984	3051	5.58		230.7	330	75.29	
+4°	8942	2484	10.6		329.4	YQGN	81.81	
	10152	2820	8.92		308.3	740-12	83.20	
	11574	3215	5.79		252.3	355	75.22	

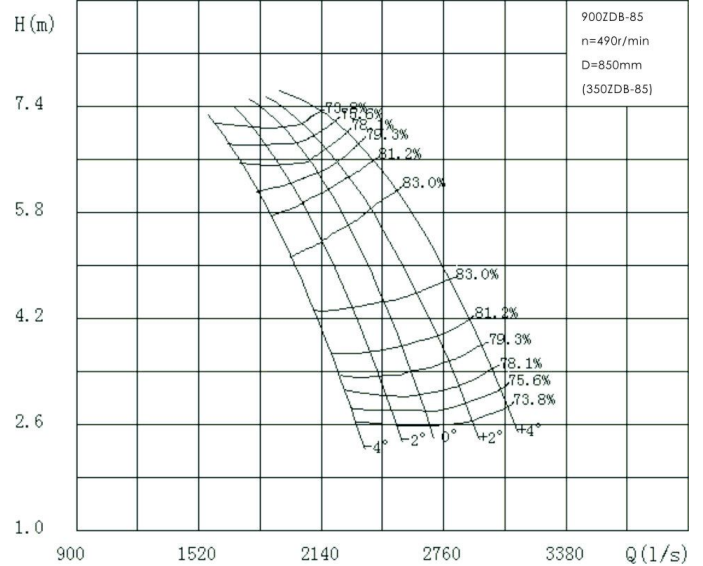
Performance Table of 900ZDB-70 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			Shaft power	Motor power			
-4°	5339	1483	7.00	490	135.9	YQGN	77.96	850	
	6372	1770	4.92		108.4		81.94		
	6988	1941	3.52		86.84		80.30		
-2°	5720	1589	7.08		146.0	740-12	78.55		
	6955	1932	5.05		120.7		82.50		
	7679	2133	3.63		96.30		82.05		
0°	6077	1688	7.15		157.0	YQGN	78.43		
	7398	2055	5.16		131.3		740-12		82.50
	8240	2289	3.73		105.7		180		82.39
+2°	6664	1851	7.28		170.8	YQGN	78.17		
	8028	2230	5.34		147.2		740-12		82.50
	8924	2479	3.85		119.0		200		81.88
+4°	7103	1973	7.39		194.3	YQGN	76.59		
	8478	2355	5.47		159.2		740-12		82.50
	9346	2596	3.93		129.3		220		80.56

Performance Curve of 900ZDB-70* Electric Submersible Pump



Performance Curve of 900ZDB-85 Electric Submersible Pump



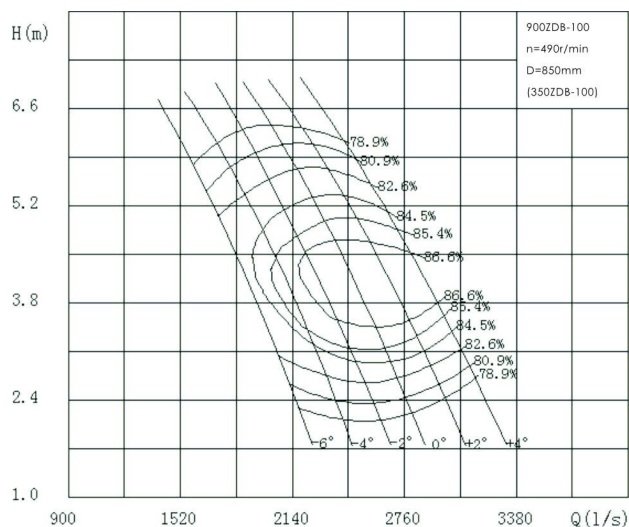
Performance Table of 900ZDB-70* Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			Shaft power	Motor power			
-4°	8194	2276	7.72	490	223.9	YQGN	80.02	850	
	8914	2476	6.86		208.7		83.01		
	9947	2763	5.02		177.7		79.64		
-2°	8726	2424	7.84		238.0	740-12	81.45		
	9486	2635	6.95		222.3		84.01		
	10573	2937	5.13		190.4		250		90.69
0°	9241	2567	7.96		253.2	YQGN	82.35		
	10080	2800	7.04		236.9		740-12		84.93
	11243	3123	5.25		204.9		280		81.59
+2°	9277	2577	8.52		277.6	YQGN	80.64		
	10746	2985	7.14		251.8		85.60		
	11887	3302	5.37		221.0		740-12		81.90
+4°	9853	2737	8.68		297.0	740-12	81.66		
	11351	3153	7.27		273.2		315		85.60
	12568	3491	5.51		239.6		81.92		
+6°	10418	2894	8.86		318.2	YQGN	82.22		
	11995	3332	7.39		293.6		740-12		85.60
	13266	3685	5.66		261.6		355		81.36

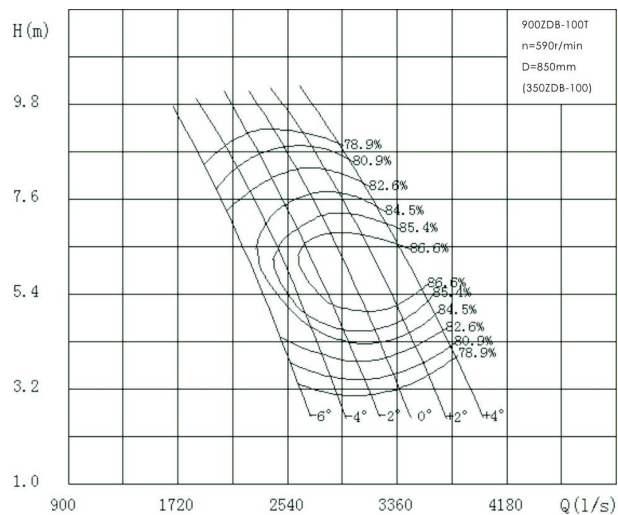
Performance Table of 900ZDB-85 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			轴功率 Shaft power	电机功率 Motor power			
-4°	6224	1729	6.37	490	146.5	YQGN	78.18	850	
	7254	2015	4.71		118.8		740-12		83.00
	8215	2282	2.65		84.69		155		74.24
-2°	6826	1896	6.45		163.9	YQGN	77.62		
	7906	2196	4.80		132.2		740-12		83.00
	8892	2470	2.76		94.34		180		75.20
0°	7358	2044	6.52		180.2	YQGN	76.91		
	8478	2355	4.89		144.4		83.00		
	9457	2627	2.86		101.6		740-12		76.94
+2°	7765	2157	6.58		188.5	740-12	78.33		
	9043	2512	4.99		157.0		200		83.00
	10170	2825	3.00		114.9		76.62		
+4°	8348	2319	6.67		201.9	YQGN	79.70		
	9688	2691	5.10		172.0		740-12		83.00
	10829	3008	3.13		129.1		220		75.87

Performance Curve of 900ZDB-100 Electric Submersible Pump



Performance Curve of 900ZDB-100T Electric Submersible Pump



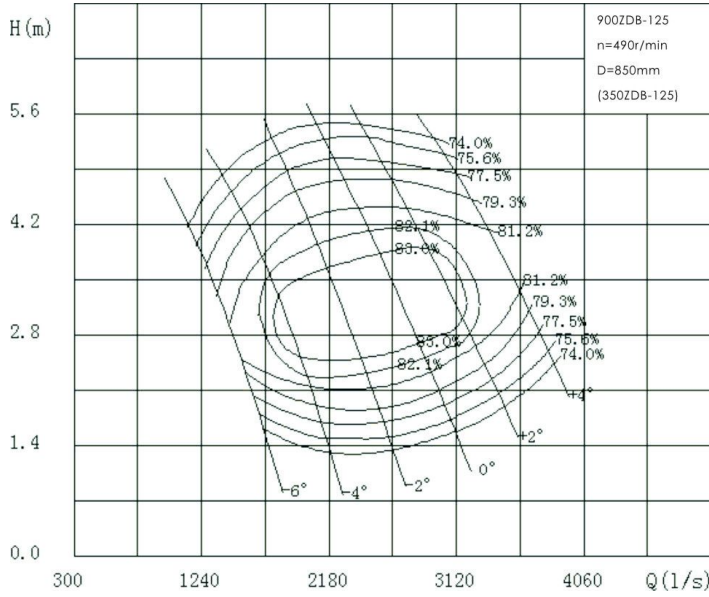
Performance Table of 900ZDB-100 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	6048	1680	5.13	490	109.9	YQGN	81.61	850
	7085	1968	3.46		83.95	740-12	84.37	
	7798	2166	2.16		62.65	77.49	77.49	
-4°	6725	1868	5.21		122.2	740-12	82.86	
	7801	2167	3.56		93.17	132	86.07	
	8525	2368	2.27		69.01	69.01	80.79	
-2°	7301	2028	5.29		133.5	YQGN	83.56	
	8406	2335	3.65		102.2	740-12	86.60	
	9184	2551	2.37		77.49	77.49	81.14	
0°	7902	2195	5.37		146.0	YQGN	83.97	
	9036	2510	3.75		112.9	155	86.60	
	9806	2724	2.48		86.50	86.50	81.22	
+2°	8471	2353	5.46	160.1	YQGN	83.42		
	9677	2688	3.86	124.4	740-12	86.60		
	10494	2915	2.61	97.41	180	81.17		
+4°	9054	2515	5.55	174.1	YQGN	81.82		
	10310	2864	3.97	134.1	740-12	86.60		
	11182	3106	2.74	108.3	200	80.34		

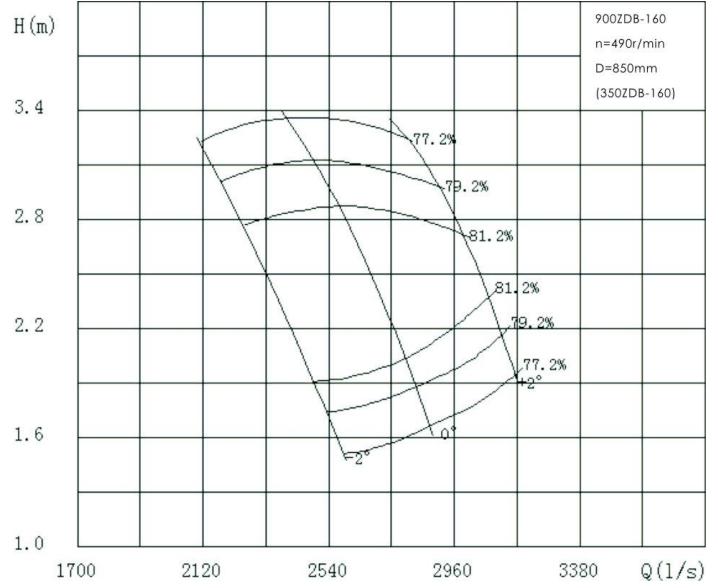
Performance Table of 900ZDB-100T Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	7229	2008	7.83	590	202.0	YQGN	80.91	850
	8402	2334	5.58		159.5	740-10	84.81	
	9389	2608	3.42		117.5	220	79.01	
-4°	8050	2236	7.93		223.8	YQGN	82.39	
	9270	2575	5.70		176.6	740-10	86.50	
	10274	2854	3.56		129.5	250	81.67	
-2°	8759	2433	8.03		244.9	YQGN	82.94	
	10004	2779	5.82		194.1	740-10	86.60	
	11077	3077	3.70		144.5	280	82.01	
0°	9493	2637	8.14		267.7	YQGN	83.38	
	10775	2993	5.95		213.9	740-10	86.60	
	11848	3291	3.85		160.4	280	82.11	
+2°	10195	2832	8.25	294.2	YQGN	82.60		
	11556	3210	6.09	234.9	740-10	86.60		
	12686	3524	4.02	179.8	315	81.85		
+4°	10897	3027	8.37	318.1	YQGN	81.27		
	12316	3421	6.24	251.6	740-10	86.60		
	13525	3757	4.20	197.7	355	81.33		

Performance Curve of 900ZDB-125 Electric Submersible Pump



Performance Curve of 900ZDB-160 Electric Submersible Pump



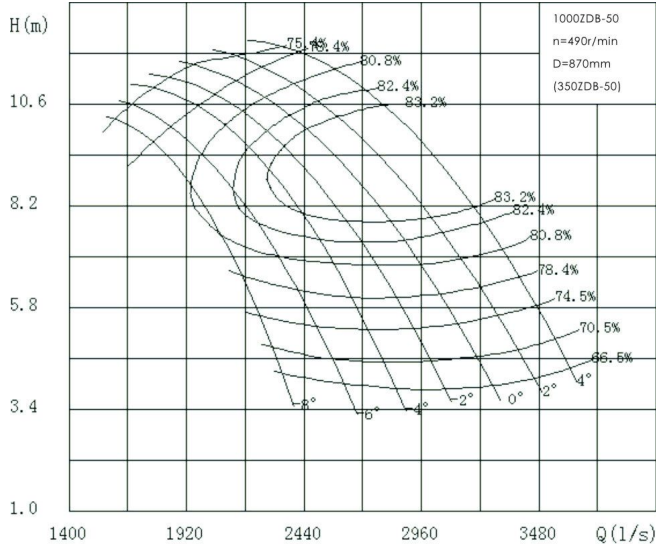
Performance Table of 900ZDB-125 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)			Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power	Efficiency η (%)	
-6°	4302	1195	3.88	490	64.41	YQGN	75.63	850
	5436	1510	2.49		48.26	740-12	81.70	
	6300	1750	1.19		29.75	80	73.39	
-4°	5735	1593	4.02		84.32	YQGN	79.76	
	6876	1910	2.66		64.31	740-12	83.00	
	7747	2152	1.39		41.84	90	74.91	
-2°	7178	1994	4.21		108.4	YQGN	81.21	
	8284	2301	2.87		83.67	740-12	83.00	
	9220	2561	1.63		56.60	132	77.65	
0°	8456	2349	4.40		134.6	YQGN	80.61	
	9695	2693	3.12		106.4	740-12	83.00	
	10757	2988	1.94		78.22	155	77.62	
+2°	9522	2645	4.59		159.6	YQGN	79.85	
	10868	3019	3.36		128.3	740-12	83.00	
	12028	3341	2.22		100.5	180	77.47	
+4°	10937	3038	4.87		203.8	YQGN	76.26	
	12348	3430	3.70		162.0	740-12	82.18	
	13489	3747	2.59		133.2	220	76.38	

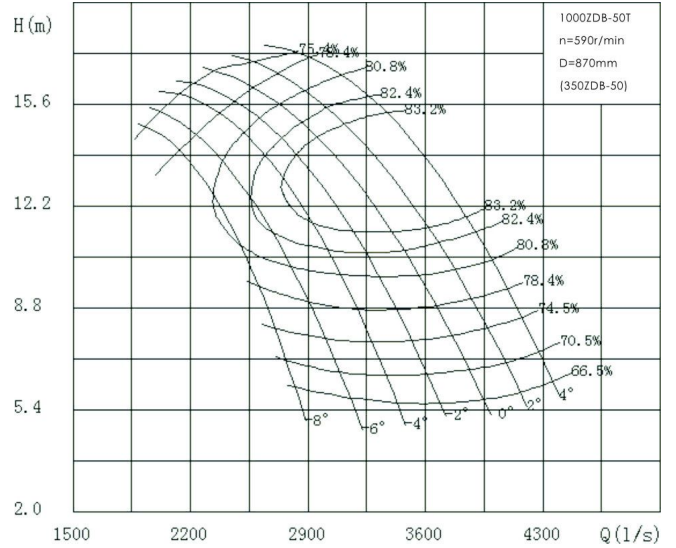
Performance Table of 900ZDB-160 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)			Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power	Efficiency η (%)	
-2°	7888	2191	2.84	490	82.07	YQGN	79.63	850
	8482	2356	2.28		69.44	740-12	81.20	
	9097	2527	1.62		54.36	90	79.18	
0°	8953	2487	3.00		98.55	YQGN	79.52	
	9562	2656	2.45		84.10	740-12	81.20	
	10130	2814	1.80		66.98	110	79.23	
+2°	10001	2778	3.17		119.6	YQGN	77.36	
	10674	2965	2.65		101.4	740-12	81.15	
	11207	3113	2.00		82.82	132	78.88	

Performance Curve of 1000ZDB-50 Electric Submersible Pump



Performance Curve of 1000ZDB-50T Electric Submersible Pump



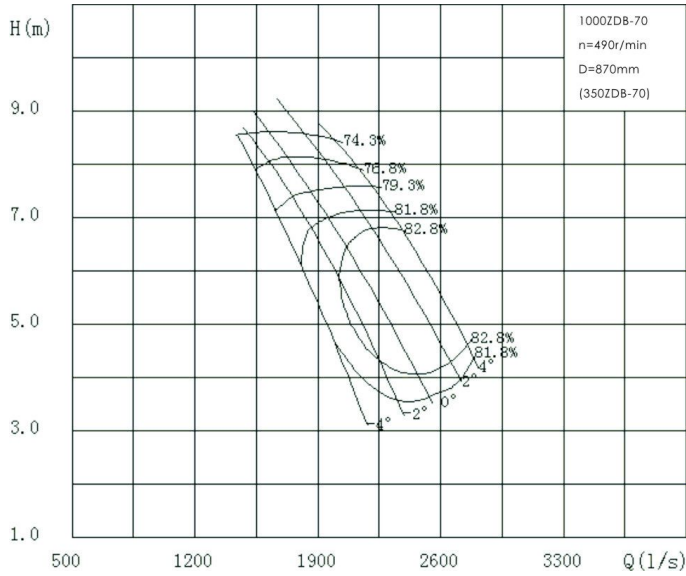
Performance Table of 1000ZDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	6602	1834	10.14	490	232.8	250	78.32	870
	7765	2157	8.38		214.7		82.64	
	8726	2424	6.12		185.6		78.36	
-4°	7366	2046	10.3		257.2	280	80.33	
	8500	2361	8.56		238.3		83.20	
	9457	2627	6.31		203.0		80.11	
-2°	2459	2178	10.4		274.5	315	80.96	
	2808	2509	8.70		257.2		83.20	
	2920	2798	6.49		221.8		80.28	
0°	8392	2331	10.53		295.0	355	81.63	
	9608	2669	8.85		278.6		83.20	
	10714	2976	6.68		242.1		80.56	
+2°	9004	2501	10.69		319.7	400	82.02	
	10206	2835	9.03		301.7		83.20	
	11326	3146	6.88		264.0		80.43	
+4°	9796	2721	10.91		353.2	400	82.41	
	10933	3037	9.25		331.2		83.20	
	11981	3328	7.10		288.7		80.32	

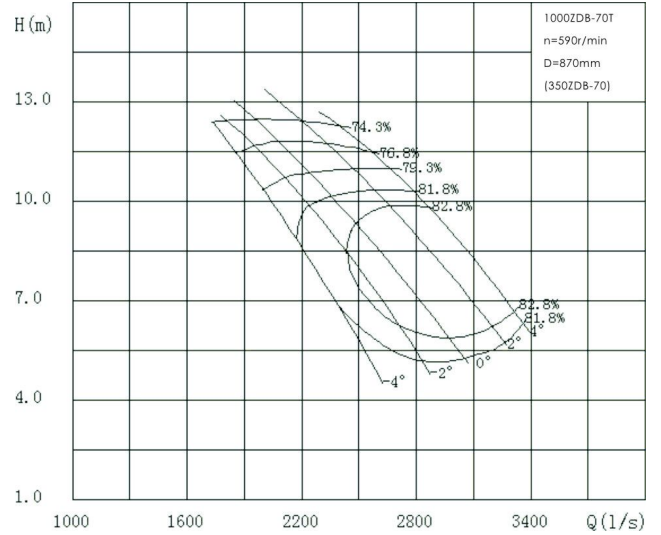
Performance Table of 1000ZDB-50T Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	8172	2270	14.41	490	405.0	450	79.22	870
	9526	2646	11.74		368.3		82.71	
	10469	2908	8.99		326.0		78.71	
-4°	9086	2524	14.62		445.8	500	81.2	
	10411	2892	11.98		408.3		83.2	
	11354	3154	9.25		356.5		80.3	
-2°	9670	2686	14.77		476.3	560	81.73	
	11070	3075	12.17		441.3		83.20	
	12096	3360	9.49		389.0		80.44	
0°	10343	2873	14.96		511.9	630	82.35	
	11790	3275	12.39		478.5		83.20	
	12877	3577	9.76		424.3		80.71	
+2°	11077	3077	15.17		553.8	630	82.70	
	12514	3476	12.63		517.7		83.20	
	13619	3783	10.03		462.0		80.53	
+4°	12031	3342	15.47		611.3	630	82.97	
	13381	3717	12.94		567.1		83.20	
	14418	4005	10.33		504.9		80.38	

Performance Curve of 1000ZDB-70 Electric Submersible Pump



Performance Curve of 1000ZDB-70T Electric Submersible Pump



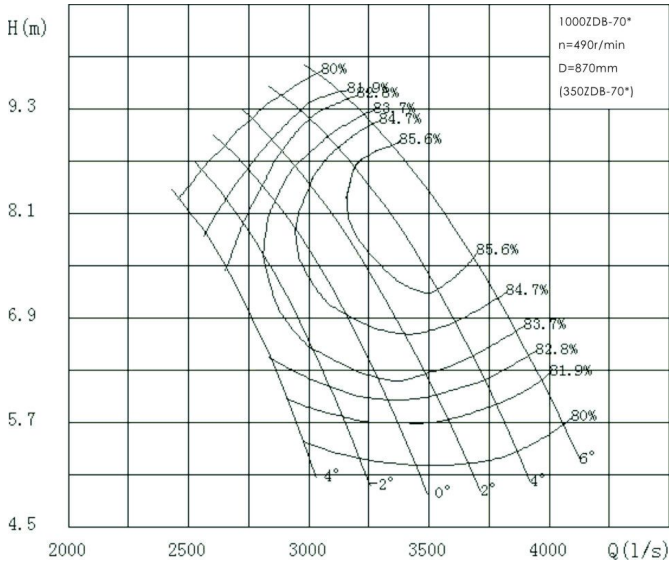
Performance Table of 1000ZDB-70 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	5998	1666	7.09	490	146.2	155	79.31	870
	6894	1915	5.28		121.0		82.04	
	7697	2138	3.48		91.4		79.73	
-2°	6444	1790	7.19		157.4	180	80.38	
	7520	2089	5.43		134.8		82.60	
	8420	2339	3.67		102.9		81.82	
0°	6854	1904	7.27		169.2	220	80.32	
	7999	2222	5.55		146.5		82.60	
	9014	2504	3.84		114.8		82.16	
+2°	7499	2083	7.43		189.1	250	80.22	
	8672	2409	5.74		164.2		82.60	
	9706	2696	4.05		131.0		81.76	
+4°	7985	2218	7.55		207.6	250	79.15	
	9162	2545	5.88		177.8		82.60	
	10130	2814	4.19		143.5		80.61	

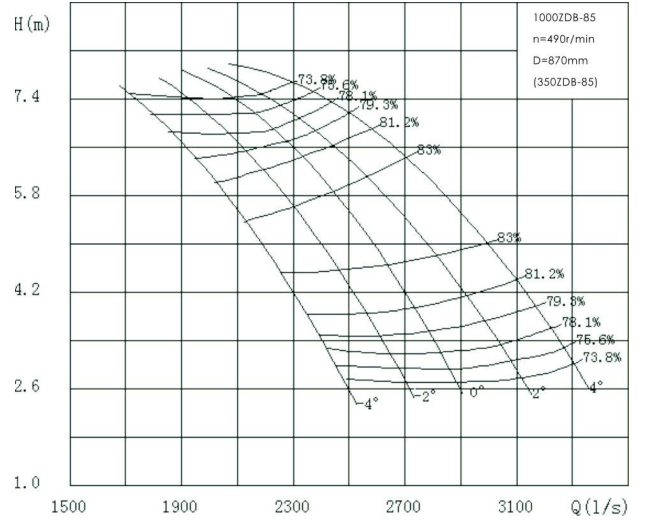
Performance Table of 1000ZDB-70T Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	7438	20662372	9.78	490	246.2	280	80.50	870
	8539		7.03		199.3		82.09	
	9212		5.20		162.7		80.18	
-2°	8050	2236	9.91		265.8	315	81.82	
	9342	2595	7.23		222.4		82.80	
	10094	2804	5.44		182.1		82.14	
0°	8550	2375	10.03		285.3	355	81.93	
	9961	2767	7.40		242.6		82.80	
	10811	3003	5.65		201.7		82.51	
+2°	9356	2599	10.23		317.9	400	82.06	
	10800	3000	7.65		271.7		82.80	
	11660	3239	5.92		229.1		82.08	
+4°	9972	2770	10.40		346.2	400	81.64	
	11387	3163	7.83		293.4		82.80	
	12190	3386	6.10		250.4		80.86	

Performance Curve of 1000ZDB-70* Electric Submersible Pump



Performance Curve of 1000ZDB-85 Electric Submersible Pump



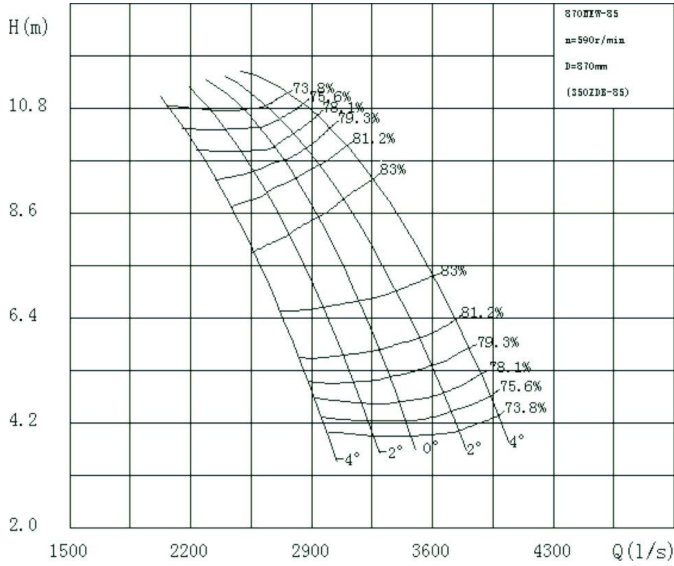
Performance Table of 1000ZDB-70* Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	9058	2516	8.09	490	246.6	280	80.92	870
	9727	2702	7.25		231.3		83.11	
	10757	2988	5.33		197.4		79.46	
-2°	9608	2669	8.22		262.1	315	82.10	
	10292	2859	7.40		247.0		84.03	
	11448	3180	5.50		212.6		80.72	
0°	9727	2702	8.75		286.5	355	80.97	
	10894	3026	7.57		264.6		84.92	
	12143	3373	5.69		229.8		81.86	
+2°	10367	2863	8.91		303.9	355	82.29	
	11455	3182	7.74		282.1		85.60	
	12798	3555	5.87		248.9		82.32	
+4°	10958	3044	9.09	326.6	400	83.10		
	12146	3374	7.95	307.5		85.60		
	13496	3749	6.08	271.3		82.47		
+6°	11578	3216	9.27	350.2	400	83.54		
	12776	3549	8.16	331.9		85.60		
	14206	3946	6.31	296.9		82.24		

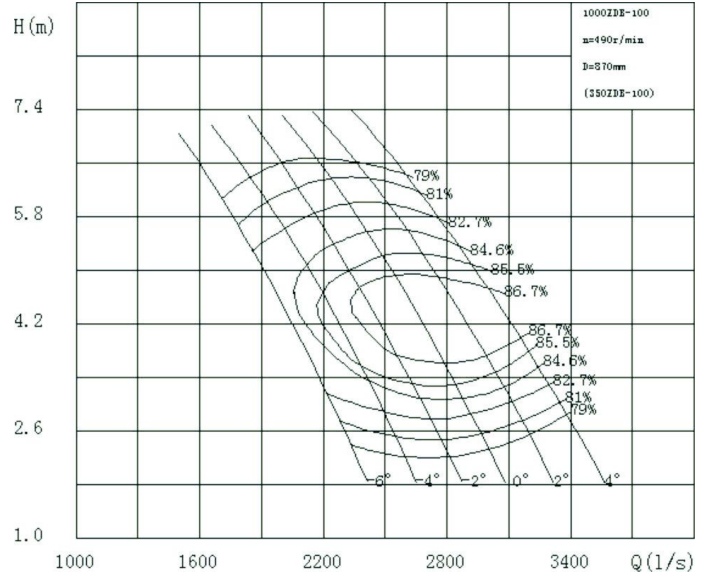
Performance Table of 1000ZDB-85 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	7135	1982	6.27	490	152.1	180	80.10	870
	8093	2248	4.59		121.9		83.00	
	8914	2476	2.80		91.7		74.04	
-2°	7769	2158	6.41		168.8	220	80.39	
	8773	2437	4.76		137.0		83.00	
	9616	2671	2.99		103.8		75.51	
0°	8330	2314	6.54		185.1	250	80.24	
	9360	2600	4.92		151.1		83.00	
	10199	2833	3.17		112.4		78.25	
+2°	8773	2437	6.66		196.7	250	80.94	
	9954	2765	5.09		166.3		83.00	
	10919	3033	3.39		129.4		78.08	
+4°	9378	2605	6.82	213.5	250	81.64		
	10606	2946	5.29	184.3		83.00		
	11592	3220	3.62	146.2		78.24		

Performance Curve of 1000ZDB-85T Electric Submersible Pump



Performance Curve of 1000ZDB-100 Electric Submersible Pump



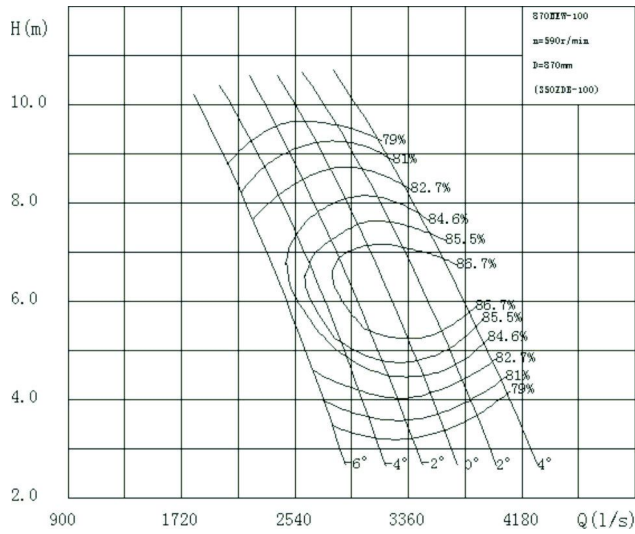
Performance Table of 1000ZDB-85T Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)			
	(m ³ /h)	(l/s)			Shaft power	Motor power					
-4°	8845	2457	8.59	590	253.9	280	81.52	870			
	9641	2678	6.89		218.1		83.00				
	10393	2887	5.00		178.5		79.36				
-2°	9641	2678	8.79		281.9	315	81.92		870		
	10465	2907	7.12		244.7		83.00				
	11239	3122	5.25		201.9		79.70				
0°	10332	2870	8.98		308.0	355	82.13			870	
	11174	3104	7.34		269.1		83.00				
	11948	3319	5.48		222.6		80.21				
+2°	10926	3035	9.16		330.4	400	82.55				870
	11891	3303	7.56		295.3		83.00				
	12776	3549	5.77		250.2		80.29				
+4°	11671	3242	9.39	360.5	400	82.89	870				
	12676	3521	7.83	325.9		83.00					
	13586	3774	6.06	280.2		80.12					

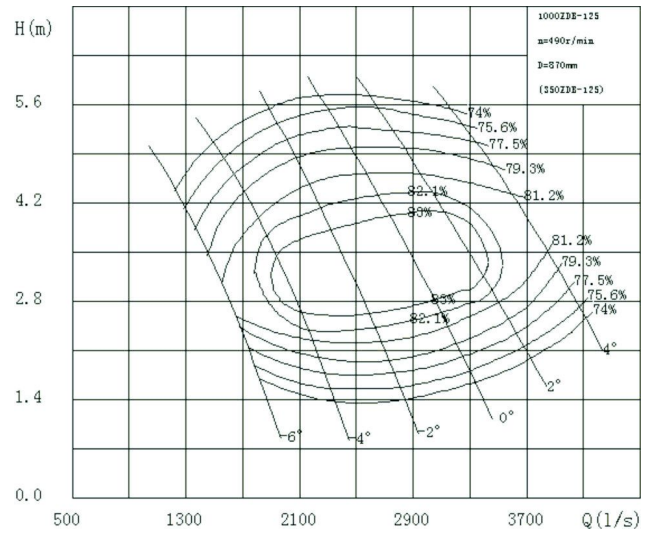
Performance Table of 1000ZDB-100 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)			
	(m ³ /h)	(l/s)			Shaft power	Motor power					
-6°	6710	1864	5.26	490	116.2	132	82.73	870			
	7697	2138	3.66		91.1		84.37				
	8568	2380	2.07		64.4		75.18				
-4°	7402	2056	5.40		130.3	155	83.59		870		
	8428	2341	3.84		102.2		86.25				
	9320	2589	2.27		72.1		79.83				
-2°	7996	2221	5.53		143.3	155	84.11			870	
	90439990	2512	3.99		113.5		86.70				
	2775	2.46	82.8		80.74						
0°	8611	2392	5.68		158.1	180	84.34				870
	9684	2690	4.17		126.9		86.70				
	10624	2951	2.65		94.2		81.35				
+2°	9187	2552	5.83	174.7	220	83.59	870				
	10325	2868	4.36	141.4		86.70					
	11318	3144	2.87	108.3		81.77					
+4°	9756	2710	5.99	195.0	220	81.65		870			
	10937	3038	4.55	156.3		86.70					
	11992	3331	3.10	123.6		81.97					

Performance Curve of 1000ZDB-100T Electric Submersible Pump



Performance Curve of 1000ZDB-125 Electric Submersible Pump



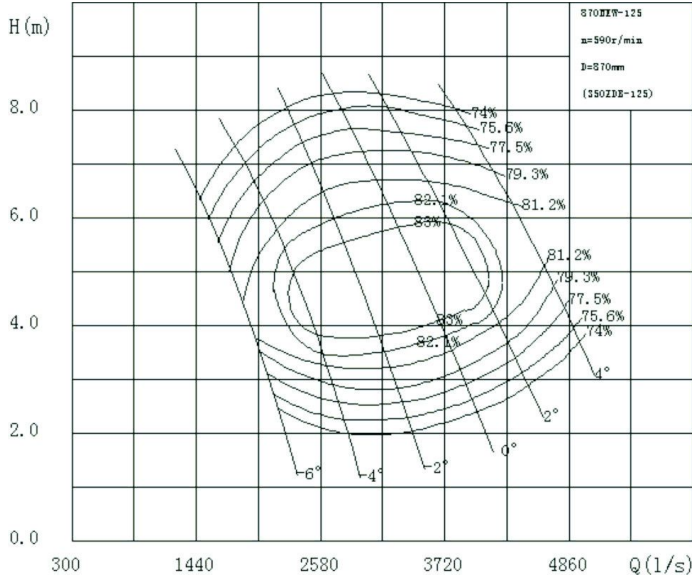
Performance Table of 1000ZDB-100T Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	8161	2267	7.47	590	199.8	220	83.17	870
	9130	2536	5.59		164.2		84.17	
	10008	2780	3.71		126.8		79.82	
-4°	9065	2518	7.58		222.4	250	84.20	
	10073	2798	5.72		181.6		86.43	
	10966	3046	3.85		140.1		82.15	
-2°	9824	2729	7.68		242.7	280	84.75	
	10865	3018	5.84		199.2		86.70	
	11819	3283	3.99		155.7		82.51	
0°	10638	2955	7.80		265.6	315	85.14	
	11700	3250	5.97		219.5		86.70	
	12654	3515	4.13		172.4		82.65	
+2°	11423	3173	7.92		289.7	355	85.14	
	12546	3485	6.11		241.1		86.70	
	13550	3764	4.30		193.0		82.28	
+4°	12197	3388	8.05		320.5	401.5	83.50	
	13378	3716	6.27		263.5		86.70	
	14454	4015	4.48		215.5		81.87	

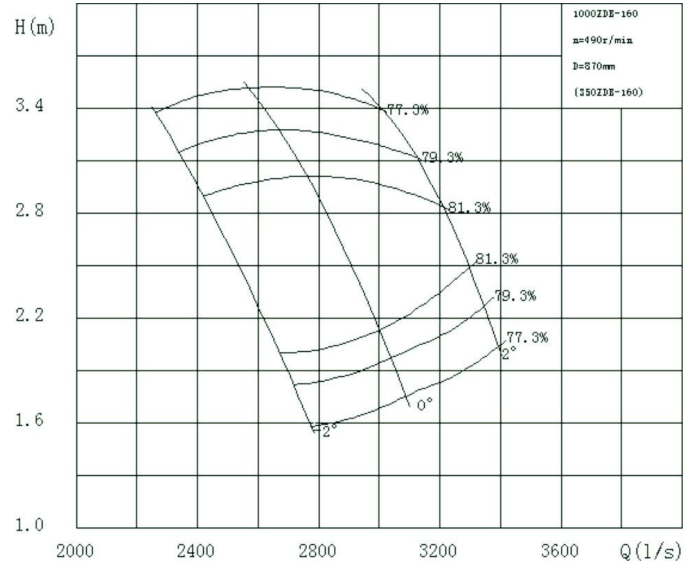
Performance Table of 1000ZDB-125 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	4936	1371	3.84	490	66.7	80	77.58	870
	6001	1667	2.51		51.2		80.04	
	6890	1914	1.17		29.9		73.50	
-4°	6422	1784	4.08		88.2	95	80.97	
	7492	2081	2.79		68.7		83.00	
	8388	2330	1.49		45.5		74.94	
-2°	7880	2189	4.38		115.3	132	81.49	
	8932	2481	3.12		91.6		83.00	
	9889	2747	1.88		64.0		79.16	
0°	9176	2549	4.69		145.3	155	80.70	
	10343	2873	3.51		119.1		83.00	
	11416	3171	2.34		90.2		80.59	
+2°	10220	2839	4.97		174.5	180	79.83	
	12553	3187	3.86		145.3		83.00	
	12640	3511	2.75		117.3		80.87	
+4°	11599	3222	5.40		227.6	250	74.95	
	12917	3588	4.35		188.6		81.24	
	14076	3910	3.29		158.3		79.80	

Performance Curve of 1000ZDB-125T Electric Submersible Pump



Performance Curve of 1000ZDB-160 Electric Submersible Pump



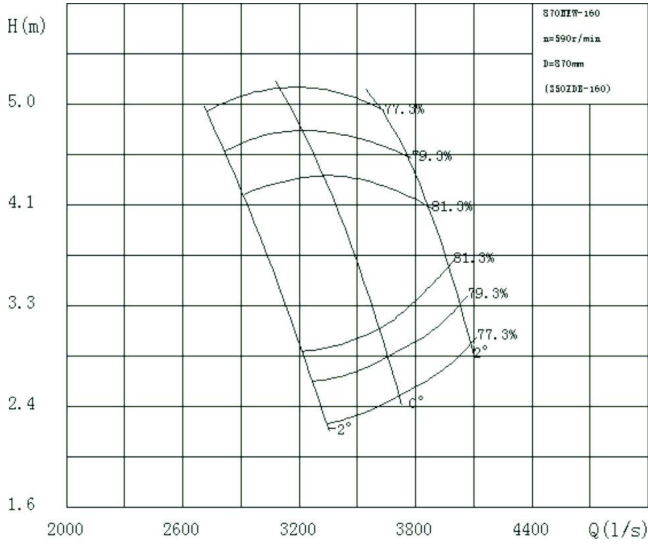
Performance Table of 1000ZDB-125T Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m3/h)	(l/s)			Shaft power	Motor power		
-6°	6260	1739	5.13	590	110.6	132	79.16	870
	7186	1996	3.70		89.8		80.62	
	7697	2138	2.81		77.7		75.83	
-4°	8064	2240	5.48		146.7	155	82.07	
	8993	2498	4.09		120.9		83.00	
	9691	2692	2.91		97.2		79.17	
-2°	9810	2725	5.90		191.4	220	82.44	
	10735	2982	4.56		160.7		83.00	
	11509	3197	3.37		129.4		81.75	
0°	11419	3172	6.36		241.9	280	81.87	
	12449	3458	5.10		208.3		83.00	
	13356	3710	3.92		173.3		82.29	
+2°	12719	3533	6.79		290.7	315	80.97	
	13828	3841	5.59		253.7		83.00	
	14827	4127	4.42		217.5		82.28	
+4°	14421	4006	7.41		379.0	400	76.90	
	15581	4328	6.29		328.1		81.34	
	16675	4632	5.10		285.8		81.09	

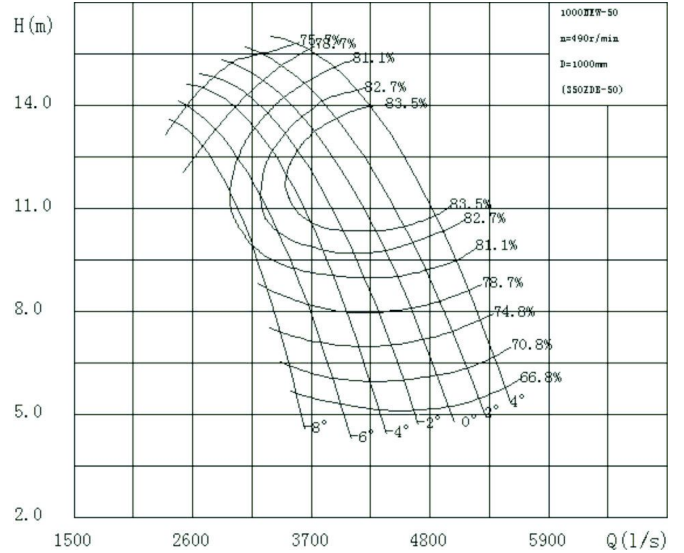
Performance Table of 1000ZDB-160 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m3/h)	(l/s)			Shaft power	Motor power		
-2°	10037	2788	1.53	490	54.3	95	77.22	870
	9378	2605	2.25		70.7		81.30	
	8550	2375	3.04		88.7		79.77	
0°	11045	3068	1.83		70.3	132	78.49	
	10429	2897	2.55		89.0		81.30	
	95724	2659	3.30		109.2		78.99	
+2°	12110	3364	2.18		90.9	155	79.28	
	11509	3197	2.88		111.7		80.94	
	10688	2969	3.47		131.5		76.83	

Performance Curve of 1000ZDB-160T Electric Submersible Pump



Performance Curve of 1200ZDB-50 Electric Submersible Pump



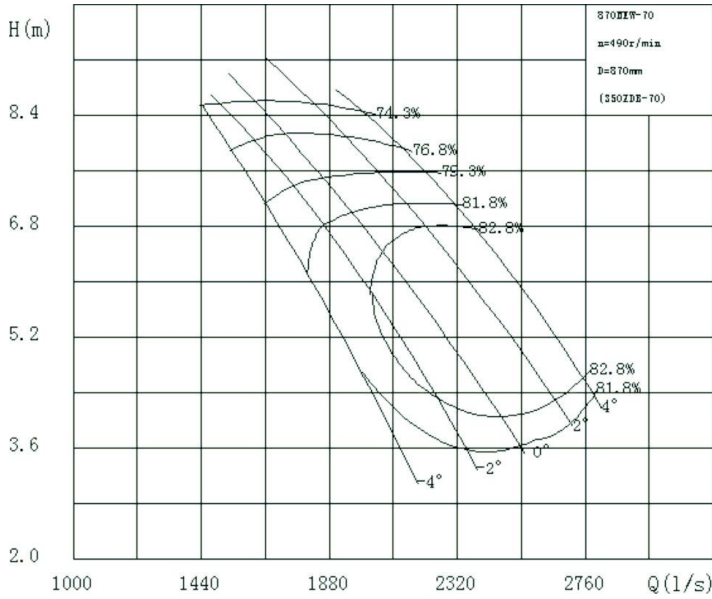
Performance Table of 1000ZDB-160T Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-2°	10401	2890	4.28	590	151.0	180	80.45	870
	11254	3126	3.30		124.6		81.30	
	10274	3354	2.23		94.9		77.30	
0°	11704	3251	4.63		185.0	220	79.77	
	12568	3491	3.68		154.8		81.30	
	13331	3703	2.61		121.2		78.21	
+2°	12931	3592	4.99		228.0	250	77.05	
	13818	3866	4.10		191.4		81.24	
	14652	4070	3.05		154.5		78.76	

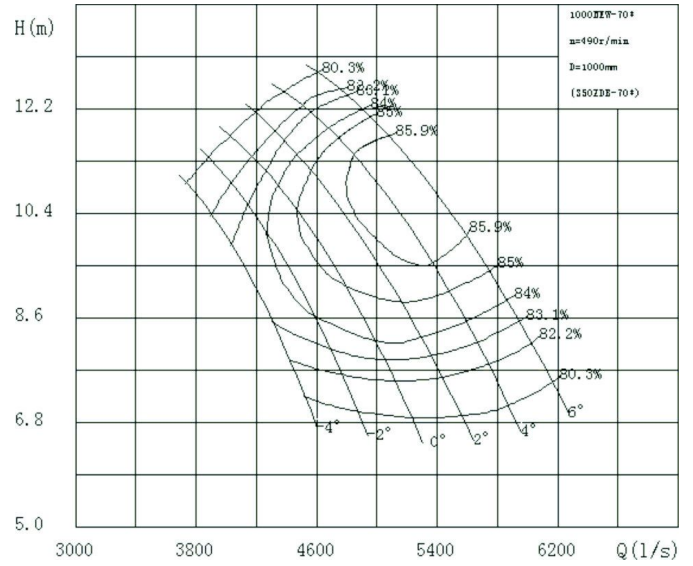
Performance Table of 1200ZDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	10220	2839	13.21	490	464.2	500	79.25	1000
	11592	3220	11.41		436.2		82.67	
	12798	3555	9.11		392.0		81.09	
-4°	11405	3168	13.39		511.3	560	81.36	
	12733	3537	11.60		482.2		83.50	
	13928	3869	9.32		432.1		81.88	
-2°	12150	3375	13.50		545.8	630	81.91	
	13543	3762	11.75		519.3		83.50	
	14839	4122	9.50		464.9		82.62	
0°	13021	3617	13.65		586.6	710	82.60	
	14447	4013	11.92		561.9		83.50	
	15811	4392	9.70		506.1		82.60	
+2°	13964	3879	13.83		634.0	800	82.99	
	15368	4269	12.11		607.3		83.50	
	16751	4653	9.91		548.3		82.50	
+4°	15203	4223	14.07		699.7	800	83.32	
	16520	4589	12.36		666.2		83.50	
	17809	4947	10.16		599.8		82.18	

Performance Curve of 1200ZDB-70 Electric Submersible Pump



Performance Curve of 1200ZDB-70* Electric Submersible Pump



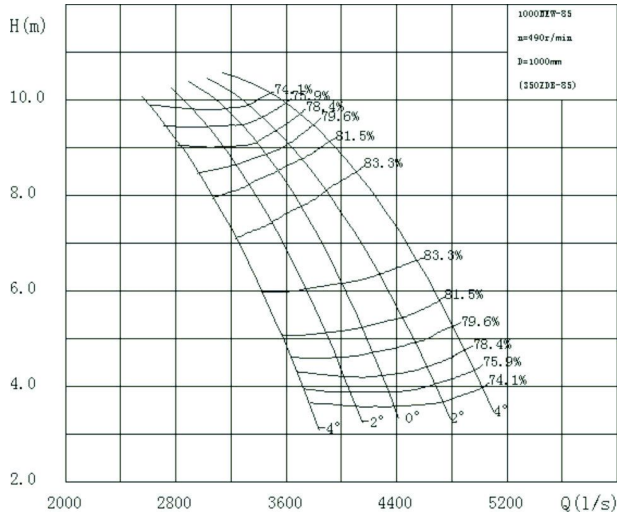
Performance Table of 1200ZDB-70 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)			
	(m3/h)	(l/s)			Shaft power	Motor power					
-4°	9756	2710	8.27	490	269.3	280	81.60	870			
	10757	2988	6.43		229.4		82.20				
	11686	3246	4.60		182.9		80.06				
-2°	10606	2946	8.41		294.4	315	82.52		870		
	11772	3270	6.62		256.0		82.90				
	12809	3558	4.82		205.0		82.09				
0°	11268	3130	8.52		315.7	355	82.90			870	
	12550	3486	6.77		279.2		82.90				
	13920	3811	5.02		227.7		82.37				
+2°	12287	3414	8.72		352.2	400	82.90				870
	13601	3778	6.99		312.5		82.90				
	14792	4109	5.26		259.2		81.84				
+4°	13072	3631	8.88	381.4	400	82.9	870				
	14339	3983	7.16	337.3		82.9					
	15448	4291	5.42	283.7		80.45					

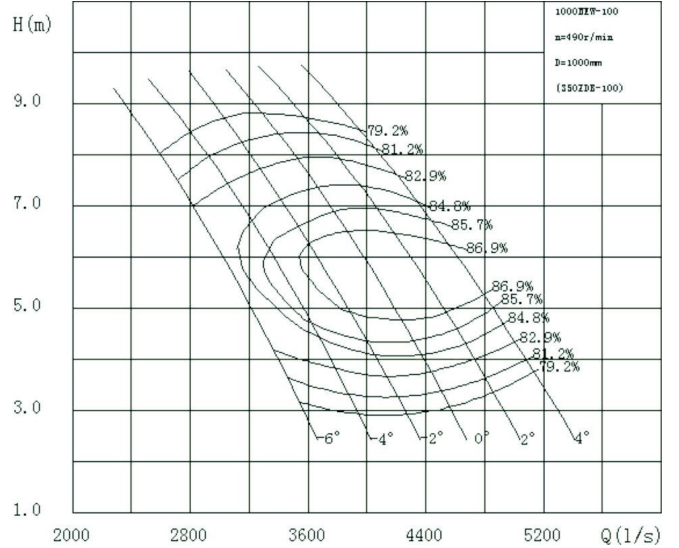
Performance Table of 1200ZDB-70* Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)			
	(m3/h)	(l/s)			Shaft power	Motor power					
-4°	13741	3817	10.68	490	492.7	560	81.19	1000			
	14634	4065	9.74		466.4		83.27				
	16074	4465	7.62		408.5		81.67				
-2°	14134	3926	11.25		535.0	630	80.97		1000		
	15520	4311	9.91		497.4		84.24				
	17046	4735	7.82		439.8		82.57				
0°	14994	4165	11.41		568.1	630	82.03			1000	
	16452	4570	10.09		531.2		85.19				
	18072	5021	8.05		473.3		83.73				
+2°	15347	4263	11.97		615.5	710	81.35				1000
	17334	4815	10.28		565.4		85.90				
	19055	5293	8.27		511.3		84.01				
+4°	16366	4546	12.18	656.7	710	82.70	1000				
	18425	5118	10.53	615.2		85.90					
	20131	5592	8.54	557.3		84.04					
+6°	17363	4823	12.39	704.3	800	83.21		1000			
	19415	5393	10.76	662.8		85.90					
	21193	5887	8.81	607.8		83.72					

Performance Curve of 1200ZDB-85 Electric Submersible Pump



Performance Curve of 1200ZDB-100 Electric Submersible Pump



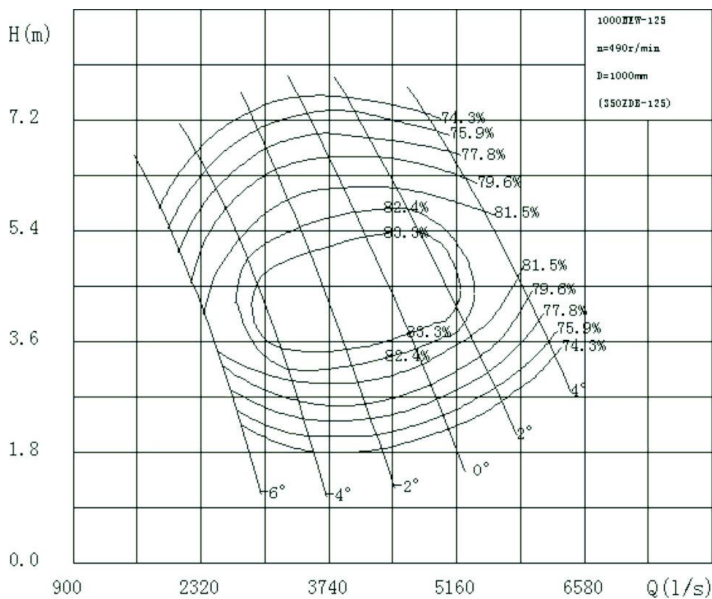
Performance Table of 1200ZDB-85 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	11120	3089	7.88	490	292.5	315	81.67	1000
	12280	3411	6.07		244.1		83.30	
	13262	3684	4.25		198.3		77.49	
-2°	12132	3370	8.05		324.0	355	82.13	
	13334	3704	6.27		273.4		83.30	
	14342	3984	4.47		219.5		79.53	
0°	13014	3615	8.21		353.4	400	82.36	
	14242	3956	6.45		300.3		83.30	
	15246	4235	4.66		242.8		79.67	
+2°	13774	3826	8.35		378.5	450	82.82	
	15178	4216	6.64		329.8		83.30	
	16333	4537	4.90		274.2		79.55	
+4°	14738	4094	8.55	412.5	450	83.22		
	16196	4499	6.87	364.0		83.30		
	17377	4827	5.15	306.6		79.56		

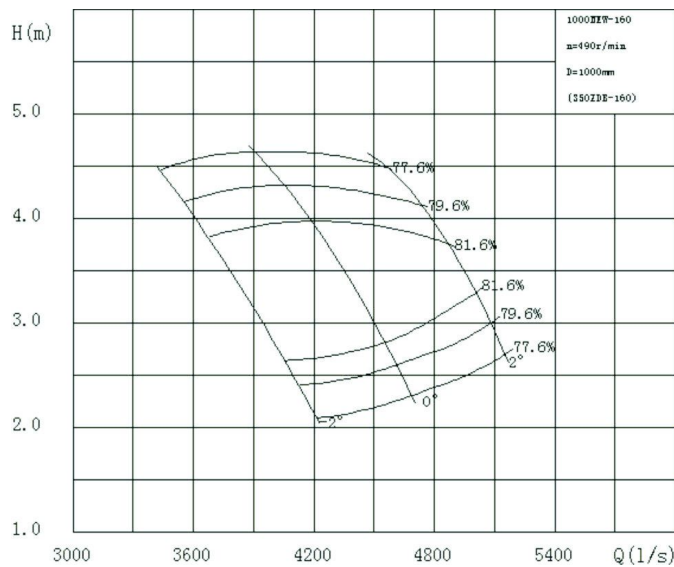
Performance Table of 1200ZDB-100 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	10328	2869	6.76	490	227.8	250	83.52	1000
	11606	3224	4.96		185.1		84.75	
	12758	3544	3.16		139.6		78.68	
-4°	11412	3170	6.93		255.5	280	84.32	
	12737	3538	5.16		206.7		86.58	
	13910	3864	3.38		156.4		81.88	
-2°	12326	3424	7.08		280.4	315	84.83	
	13687	3802	5.34		229.0		86.90	
	14936	4149	3.59		177.1		82.54	
0°	13291	3692	7.26		309.0	355	85.06	
	14681	4078	5.54		254.9		86.90	
	15926	4424	3.81		198.9		83.10	
+2°	14198	3944	7.44	339.3	400	84.81		
	15674	4354	5.75	282.7		86.90		
	16988	4719	4.06	226.6		82.89		
+4°	15102	4195	7.63	379.4	400	82.71		
	16639	4622	5.97	311.7		86.90		
	18036	5010	4.32	255.4		83.10		

Performance Curve of 1200ZDB-125 Electric Submersible Pump



Performance Curve of 1200ZDB-160 Electric Submersible Pump



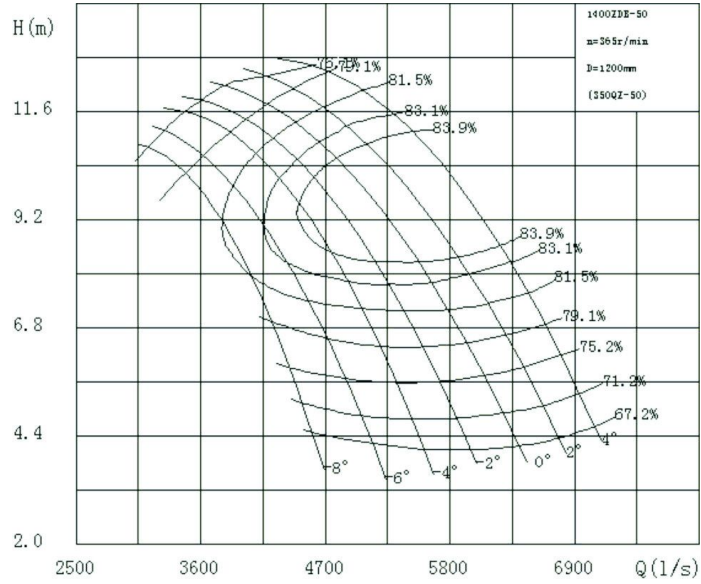
Performance Table of 1200ZDB-125 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m3/h)	(l/s)			Shaft power	Motor power		
-6°	7196	1999	5.37	490	137.2	155	76.46	1000
	8899	2472	3.56		105.2		82.20	
	10306	2863	1.76		67.1		73.57	
-4°	9475	2632	5.64		181.5	220	80.26	
	11196	3110	3.89		142.6		83.30	
	12618	3505	2.13		96.3		76.25	
-2°	11765	3268	5.99		235.8	250	81.37	
	13415	3729	4.28		188.1		83.30	
	14936	4149	2.59		131.5		80.14	
0°	13756	3821	6.35		296.1	355	80.38	
	15595	4332	4.73		241.5		83.30	
	17291	4803	3.13		181.9		81.11	
+2°	15383	4273	6.69	354.0	400	79.17		
	17370	4825	5.15	292.7		83.30		
	19213	5337	3.63	234.5		81.08		
+4°	17521	4867	7.19	458.1	500	74.93		
	19624	5451	5.75	376.7		81.57		
	21463	5962	4.28	314.3		79.73		

Performance Table of 1200ZDB-160 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m3/h)	(l/s)			Shaft power	Motor power		
-2°	13079	3633	3.93	490	174.0	220	80.55	1000
	14353	3987	2.86		137.3		81.60	
	15224	4229	2.03		108.7		77.64	
0°	14724	4090	4.24		212.7	250	79.91	
	16009	4447	3.20		170.9		81.60	
	16816	4671	2.37		138.5		78.49	
+2°	16283	4523	4.56		261.6	280	77.27	
	17730	4925	3.58		212.0		81.60	
	18486	5135	2.76		176.1		79.03	

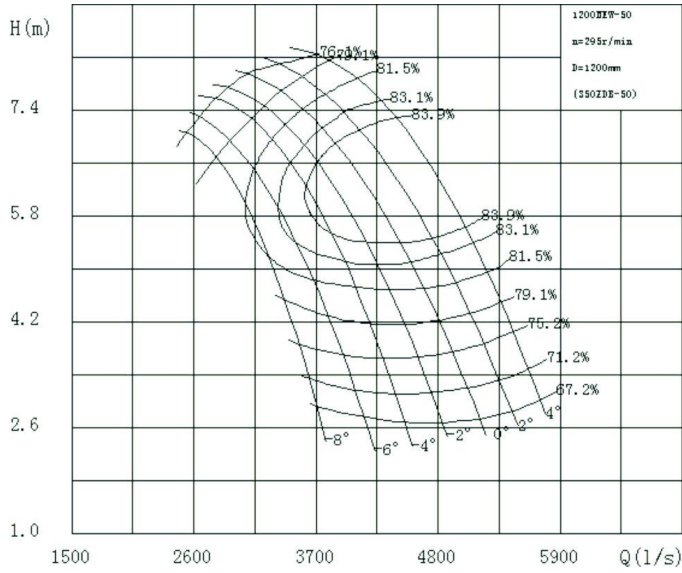
Performance Curve of 1400ZDB-50 Electric Submersible Pump



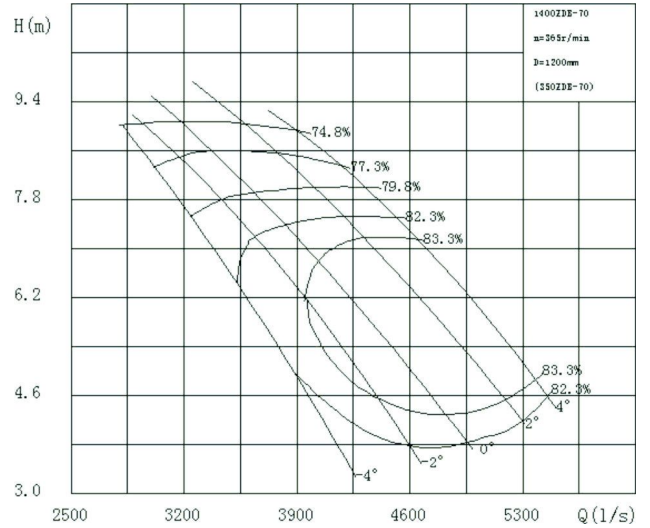
Performance Table of 1400ZDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	13417	3727	10.39	365	473.0	500	80.30	1200
	15408	4280	8.61		433.2		83.42	
	17147	4763	6.32		376.3		78.48	
-4°	14900	4139	10.55		520.9	560	82.20	
	16844	4679	8.78		480.5		80.90	
	18583	5162	6.52		410.5		80.39	
-2°	15840	4400	10.66		556.2	630	82.70	
	17906	4974	8.92		518.9		83.90	
	19796	5499	6.69		448.3		80.55	
0°	16934	4704	10.79		597.9		83.30	
	19066	5296	9.09		562.6		83.90	
	21074	5854	6.89		490.4		80.72	
+2°	18122	5034	10.95		646.9	710	83.62	
	20239	5622	9.26		608.9		83.90	
	22280	6189	7.09		534.7		80.52	
+4°	19670	5464	11.17		714.4	800	83.84	
	21665	6018	9.49		667.6		83.90	
	23569	6547	7.32		584.2		80.45	

Performance Curve of 1400ZDB-50J Electric Submersible Pump



Performance Curve of 1400ZDB-70 Electric Submersible Pump



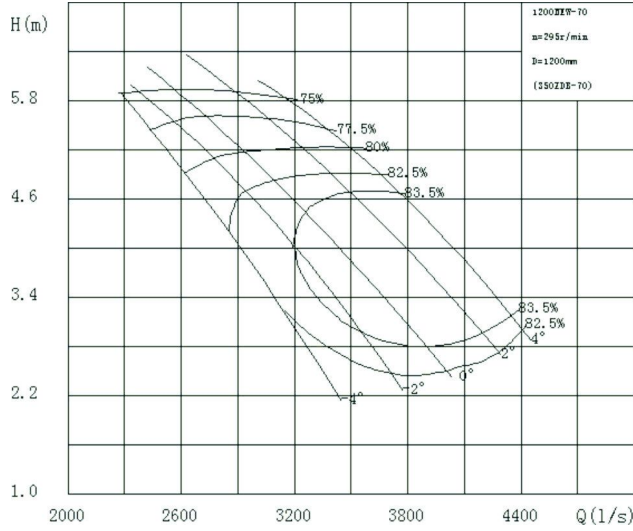
Performance Table of 1400ZDB-50J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	10483	2912	6.97	295	251.3	280	79.19	1200
	12611	3503	5.48		225.7		83.35	
	14231	3953	3.66		188.3		75.36	
-4°	11678	3244	7.08		277.5	315	81.19	
	13759	3822	5.60		250.4		83.9	
	15379	4272	3.80		207.8		76.75	
-2°	12409	3447	7.15		296.0	355	81.72	
	14612	4059	5.71		270.9		83.90	
	16391	4553	3.94		227.9		77.23	
0°	13288	3691	7.25		318.6	450	82.41	
	15548	4319	5.83		294.3		83.90	
	17438	4844	4.09		249.3		77.99	
+2°	14245	3957	7.36	345.3	450	82.77		
	16488	4580	5.95	318.9		83.90		
	18407	5113	4.24	274.0		77.62		
+4°	15484	4301	7.52	381.6	450	83.13		
	17608	4891	6.12	349.8		83.90		
	19404	5390	4.40	299.1		77.79		

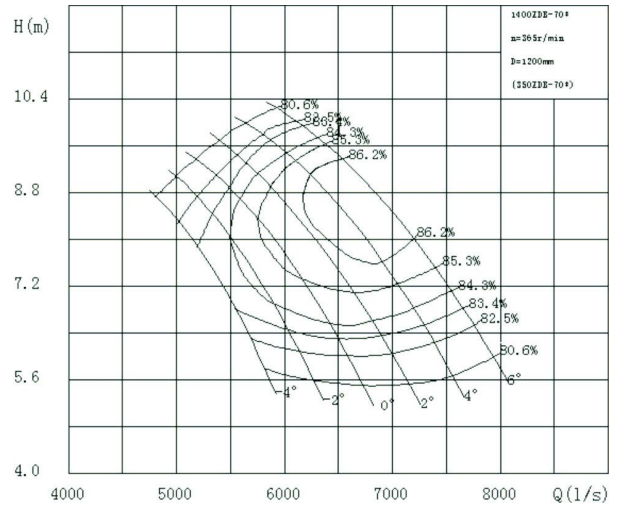
Performance Table of 1400ZDB-70 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	12499	3472	6.66	365	277.1	315	81.91	1200
	14242	3956	4.66		220.2		82.18	
	15188	4219	3.48		180.1		80.00	
-2°	13579	3772	6.78		302.9	355	82.86	
	15588	4330	4.83		246.4		83.30	
	16639	4622	3.68		202.8		82.20	
0°	14414	4004	6.88		324.9	400	83.20	
	16628	4619	4.97		270.6		83.30	
	17824	4951	3.85		226.9		82.39	
+2°	15714	4365	7.05		362.4	450	83.30	
	17982	4995	5.17		304.4		83.30	
	19195	5332	4.07		260.2		81.72	
+4°	16708	4641	7.19	392.7	450	83.30		
	18893	5248	5.32	328.6		83.30		
	20020	5561	4.20	286.2		80.09		

Performance Curve of 1400ZDB-70J Electric Submersible Pump



Performance Curve of 1400ZDB-70* Electric Submersible Pump



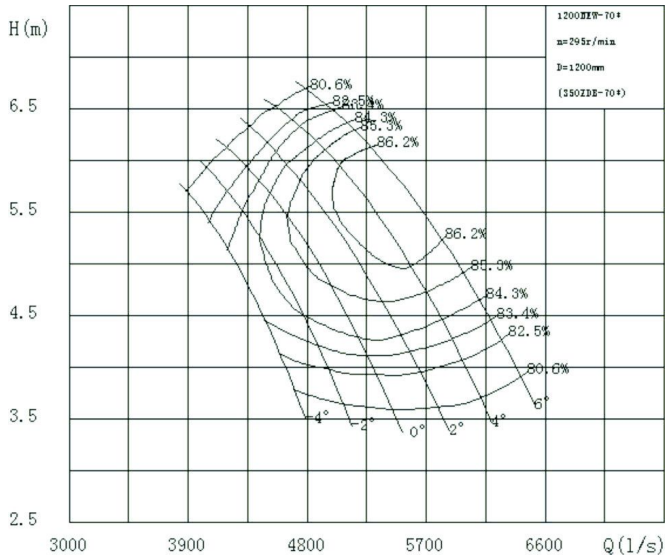
Performance Table of 1400ZDB-70J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	9630	2675	4.76	295	154.5	180	80.79	1200
	11412	3170	3.14		118.4		82.54	
	12308	3419	2.25		94.0		80.09	
-2°	10393	2887	4.83		166.9	220	82.00	
	12467	3463	3.27		132.9		83.50	
	13453	3737	2.39		106.4		82.39	
0°	11016	3060	4.90		179.2	250	82.02	
	13277	3688	3.37		145.9		83.50	
	14400	4000	2.52		119.7		82.61	
+2°	12038	3344	5.01		200.6	180	81.95	
	14350	3986	3.51		164.5		83.50	
	15484	4301	2.68		137.8		82.07	
+4°	12802	3556	5.11	219.7	220	81.09		
	15080	4189	3.62	178.1		83.50		
	16139	4483	2.78	151.7		80.61		

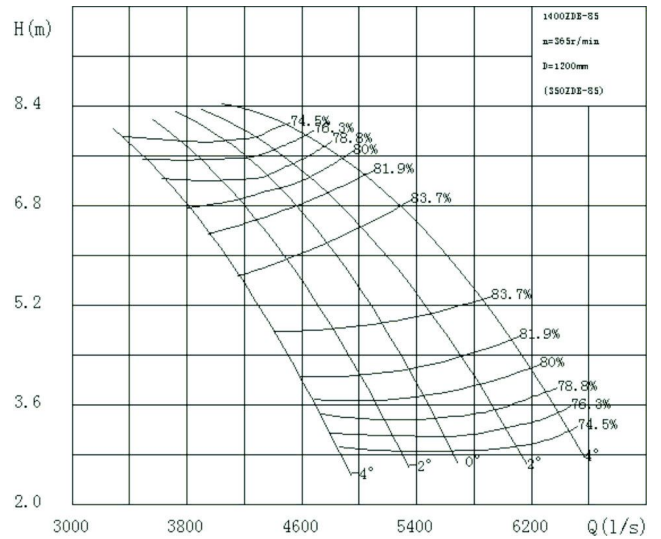
Performance Table of 1400ZDB-70* Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	17413	4837	8.68	365	510.0	560	80.79	1200
	18983	5273	7.67		474.0		83.69	
	20686	5746	6.09		418.5		81.99	
-2°	18540	5150	8.82		541.8	630	82.20	
	20120	5589	7.81		506.2		84.63	
	21927	6091	6.26		451.1		82.92	
0°	19638	5455	8.95		576.4	710	83.11	
	21308	5919	7.97		541.4		85.52	
	23242	6456	6.45		485.9		84.10	
+2°	20275	5632	9.33		619.7	800	83.21	
	22439	6233	8.13		576.9		86.20	
	24484	6801	6.64		525.1		84.43	
+4°	21600	6000	9.51	666.2	800	84.07		
	23821	6617	8.34	628.1		86.20		
	25855	7182	6.87	572.8		84.48		
+6°	22838	6344	9.69	709.4	800	85.03		
	25081	6967	8.54	677.2		86.20		
	27201	7556	7.10	625.3		84.18		

Performance Curve of 1400ZDB-70*J Electric Submersible Pump



Performance Curve of 1400ZDB-85 Electric Submersible Pump



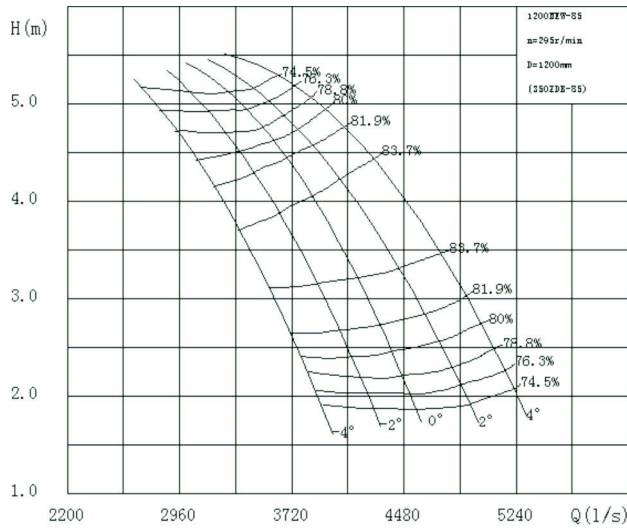
Performance Table of 1400ZDB-70*J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)			
	(m ³ /h)	(l/s)			Shaft power	Motor power					
-4°	14332	3981	5.56	295	266.2	315	81.59	1200			
	15523	4312	4.89		247.0		83.80				
	17147	4763	3.59		211.5		79.32				
-2°	15210	4225	5.66		283.3	355	82.78		1200		
	16434	4565	5.00		264.4		84.71				
	18169	5047	3.72		227.6		81.01				
0°	16092	4470	5.76		301.5	355	83.78			1200	
	17384	4829	5.12		283.6		85.54				
	19242	5345	3.87		247.2		82.16				
+2°	16189	4497	6.17		329.8	400	82.57				1200
	18281	5078	5.24		302.7		86.20				
	20261	5628	4.02		268.3		82.78				
+4°	17208	4780	6.30	353.7	400	83.50	1200				
	19368	5380	5.39	330.1		86.20					
	21337	5927	4.19	293.3		83.03					
+6°	18180	5050	6.43	380.0	450	83.77		1200			
	20362	5656	5.54	356.4		86.20					
	22421	6228	4.36	321.6		82.91					

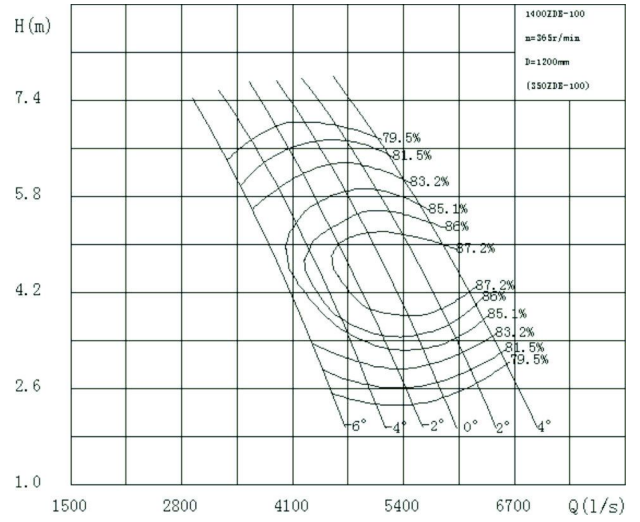
Performance Table of 1400ZDB-85 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)			
	(m ³ /h)	(l/s)			Shaft power	Motor power					
-4°	13997	3888	6.57	365	309.4	355	80.99	1200			
	15786	4385	4.88		250.7		83.70				
	17251	4792	3.17		195.9		76.06				
-2°	15250	4236	6.71		343.1	400	81.31		1200		
	17188	4755	5.05		281.5		83.70				
	18634	5176	3.36		217.6		78.5				
0°	16362	4545	6.85		375.4	400	81.39			1200	
	18277	5077	5.21		310.2		83.70				
	19782	5495	3.54		238.2		80.03				
+2°	17262	4795	6.97		399.8	450	82.00				1200
	19447	5402	5.39		341.0		83.70				
	21175	5882	3.76		272.8		79.55				
+4°	18443	5123	7.14	434.1	450	82.62	1200				
	20725	5757	5.59	377.0		83.70					
	22493	6248	3.99	306.8		79.67					

Performance Curve of 1400ZDB-85J Electric Submersible Pump



Performance Curve of 1400ZDB-100 Electric Submersible Pump



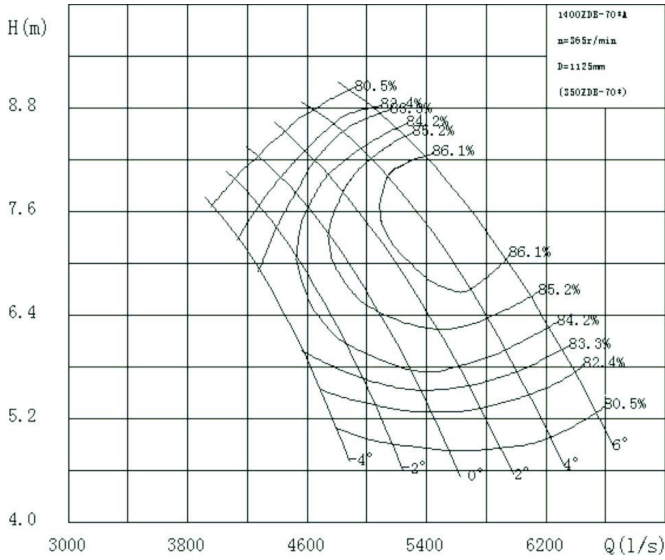
Performance Table of 1400ZDB-85J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	11034	3065	4.47	295	168.5	180	79.74	1200
	12679	3522	3.25		134.2		83.70	
	13820	3839	2.19		106.5		77.57	
-2°	12017	3338	4.58		187.6	220	79.87	
	13738	3816	3.38		151.3		83.70	
	14911	4142	2.34		119.0		79.95	
0°	12859	3572	4.67		207.1	250	79.08	
	14645	4068	3.50		167.1		83.70	
	15822	4395	2.47		133.0		80.12	
+2°	13511	3753	4.75		219.2	250	79.84	
	15541	4317	3.63		183.7		83.70	
	16895	4693	2.64		151.1		80.33	
+4°	14407	4002	4.87	236.4	250	80.90		
	16549	4597	3.78	203.7		83.70		
	17932	4981	2.80	170.6		80.31		

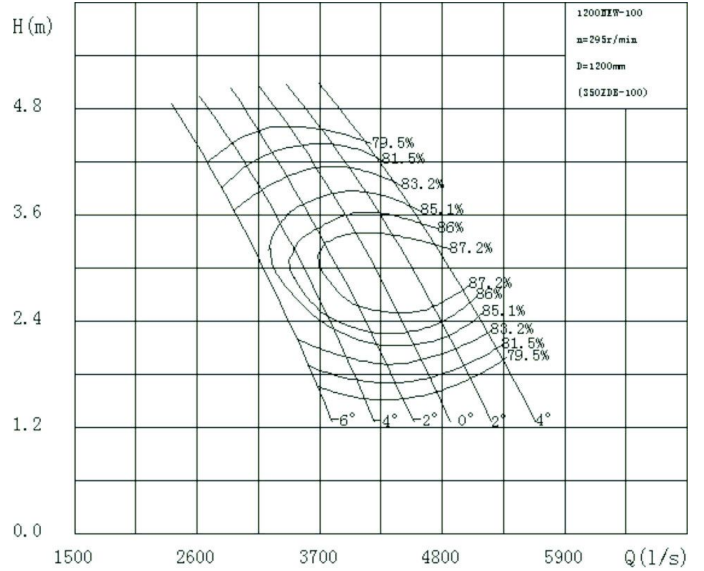
Performance Table of 1400ZDB-100 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	13424	3729	5.29	365	229.9	250	84.20	1200
	15390	4275	3.54		176.6		84.07	
	16715	4643	2.23		133.4		76.07	
-4°	14792	4109	5.46		259.4	280	84.86	
	16819	4672	3.74		200.1		85.76	
	18162	5045	3.45		150.2		80.72	
-2°	15930	4425	5.62		286.0	315	85.22	
	18022	5006	3.93		221.5		87.10	
	19458	5405	2.66		173.0		81.66	
0°	17129	4758	5.79		316.4	355	85.40	
	19364	5349	4.13		248.6		87.20	
	20682	5745	2.88		197.1		82.35	
+2°	18249	5069	5.96	348.7	400	85.04		
	20502	5695	4.35	278.6		87.20		
	22007	6113	3.13	226.7		82.75		
+4°	19357	5377	6.15	391.4	450	82.85		
	21708	6030	4.57	310.2		87.20		
	23306	6474	3.39	259.0		83.06		

Performance Curve of 1400ZDB-70*J Electric Submersible Pump



Performance Curve of 1400ZDB-100J Electric Submersible Pump



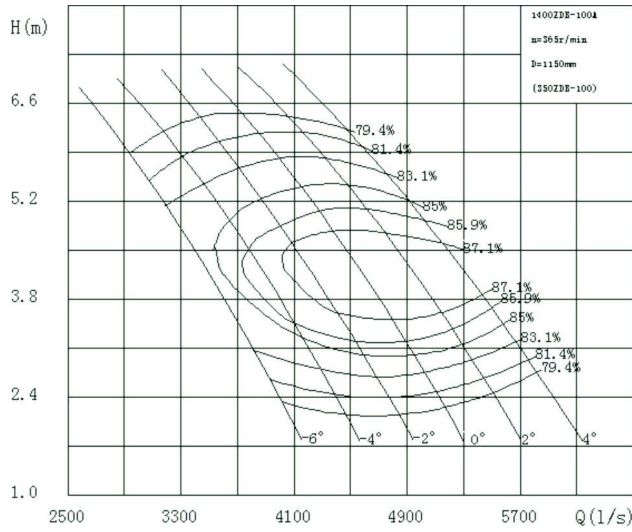
Performance Table of 1400ZDB-70*J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	14562	4045	7.51	365	366.4	400	81.35	1125
	15635	4343	6.75		344.0		83.59	
	17348	4819	4.99		294.5		80.16	
-2°	15476	4299	7.63		389.4	450	82.62	
	16567	4602	6.88		367.4		84.52	
	18392	5109	5.15		317.3		81.41	
0°	16391	4553	7.75		414.2	500	83.63	
	17539	4872	7.02		392.9		85.42	
	19494	5415	5.33		342.9		82.63	
+2°	16405	4557	8.36		455.1	560	82.09	
	18486	5131	7.17		418.9		86.10	
	20542	5706	5.51		371.7		83.04	
+4°	17456	4849	8.51	485.9	560	83.31		
	19598	5444	7.35	455.9		86.10		
	21661	6017	5.72	405.7		83.16		
+6°	18493	5137	8.67	522.8	560	83.56		
	20642	5734	7.53	492.0		86.10		
	22788	6330	5.93	443.7		83.02		

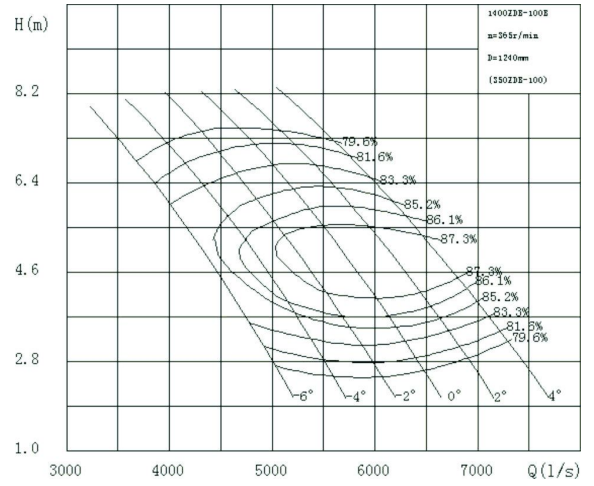
Performance Table of 1400ZDB-100J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	10328	2869	3.80	295	130.2	155	82.12	1200
	12193	3387	2.50		97.8		84.81	
	13295	3693	1.63		74.9		78.71	
-4°	11378	3166	3.91		146.0	180	83.13	
	13334	3704	2.63		110.3		86.69	
	14454	4015	1.78		85.10		82.27	
-2°	12305	3418	4.01		161.0	220	83.43	
	14281	3967	2.75		122.9		87.20	
	15473	4298	1.92		97.3		83.19	
0°	13240	3678	4.12		178.0	250	83.50	
	15275	4243	2.89		138.0		87.20	
	16463	4573	2.07		110.1		84.23	
+2°	14094	3915	4.23	196.3	250	82.73		
	16247	4513	3.04	154.1		87.20		
	17499	4861	2.23	125.4		84.93		
+4°	14962	4156	4.35	220.8	250	80.27		
	17194	4776	3.18	171.0		87.20		
	18518	5144	2.40	143.1		84.81		

Performance Curve of 1400ZDB-100A Electric Submersible Pump



Performance Curve of 1400ZDB-100B Electric Submersible Pump



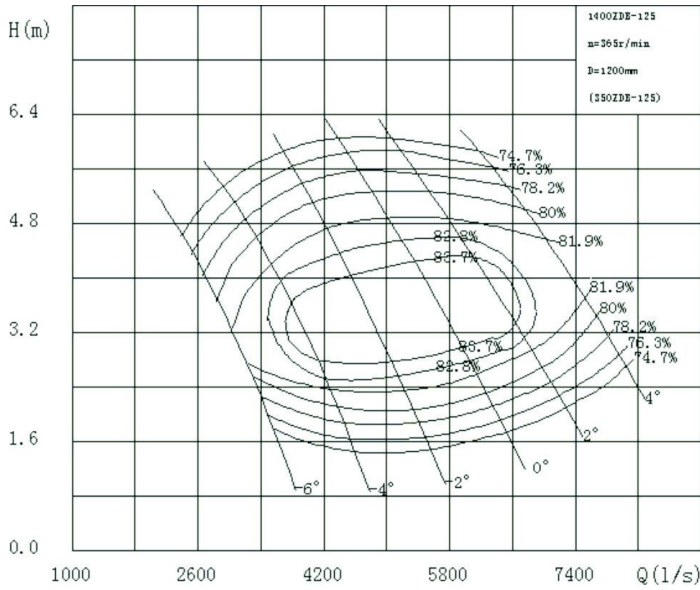
Performance Table of 1400ZDB-100A Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	11736	3260	4.93	365	188.1	220	83.84	1150
	13468	3741	3.33		145.1		84.20	
	14512	4031	2.26		114.2		78.30	
-4°	12949	3597	5.07		211.3	250	84.58	
	14738	4094	3.49		163.2		85.96	
	15797	4388	2.44		128.3		81.89	
-2°	13975	3882	5.19		232.5	280	85.05	
	15822	4395	3.64		180.4		87.10	
	16952	4709	2.61		146.1		82.59	
0°	15044	4179	5.33		256.6	315	85.24	
	16927	4702	3.81		201.7		87.10	
	18050	5014	2.79		164.8		83.23	
+2°	16063	4462	5.48	282.3	355	84.95		
	18054	5015	3.99	225.3		87.10		
	19235	5343	2.99	188.5		83.17		
+4°	17053	4737	5.63	315.9	365	82.79		
	19134	5315	4.17	249.8		87.10		
	20394	5665	3.20	213.0		83.51		

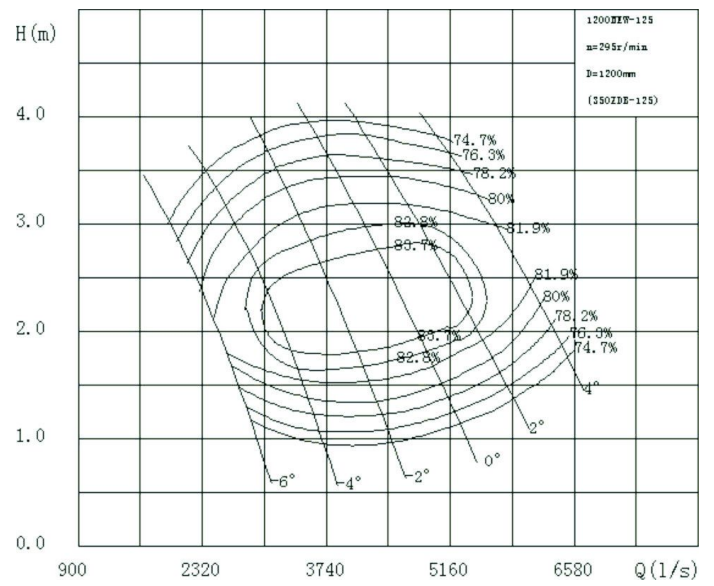
Performance Table of 1400ZDB-100B Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	14760	4100	5.70	365	272.1	315	84.17	1240
	16747	4652	4.00		215.2		84.70	
	18256	5071	2.56		163.6		77.95	
-4°	16294	4526	5.85		305.8	355	84.91	
	18349	5097	4.18		241.4		86.49	
	19886	5524	2.76		183.3		81.68	
-2°	17582	4884	5.99		336.2	400	85.33	
	19703	5473	4.34		266.9		87.30	
	21344	5929	2.95		208.6		82.39	
0°	18939	5261	6.15		370.6	450	85.56	
	21103	5862	4.52		297.8		87.30	
	22734	6315	3.15		235.4		82.91	
+2°	20221	5617	6.31	407.3	500	85.32		
	22514	6254	4.72	331.6		87.30		
	24235	6732	3.38	268.6		82.99		
+4°	21488	5969	6.47	455.7	365	83.18		
	23882	6634	4.92	366.9		87.30		
	25715	7143	3.61	304.3		83.16		

Performance Curve of 1400ZDB-125 Electric Submersible Pump



Performance Curve of 1400ZDB-125J Electric Submersible Pump



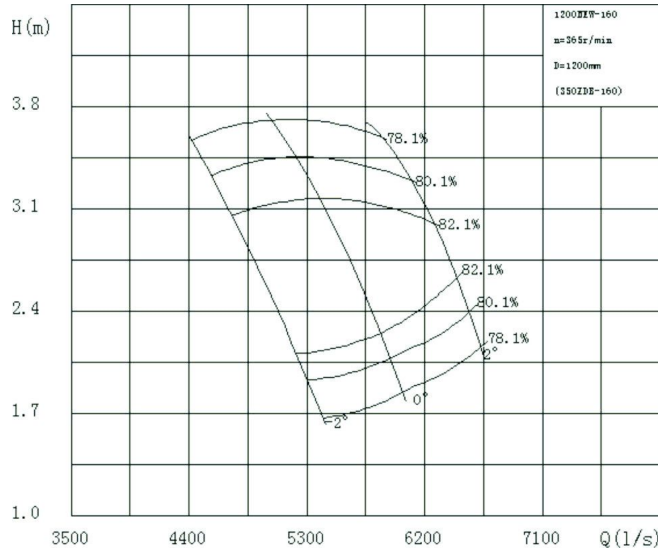
Performance Table of 1400ZDB-125 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	9990	2775	3.85	365	132.2	155	79.35	1200
	11441	3178	2.86		102.0		83.64	
	12604	3501	1.96		88.8		75.80	
-4°	12917	3588	4.09		174.6	220	82.45	
	14627	4063	2.96		140.8		83.70	
	15995	4443	1.90		106.4		77.97	
-2°	15797	4388	4.38		227.7	250	82.85	
	17989	4997	2.94		172.3		83.70	
	18947	5263	2.27		143.3		81.69	
0°	18421	5117	4.70		286.4	315	82.36	
	20858	5794	3.34		226.6		83.70	
	21938	6094	2.70		195.9		82.37	
+2°	20552	5709	4.99		343.2	400	81.46	
	23184	6440	3.70		279.1		83.70	
	24354	6765	3.09		249.0		82.49	
+4°	23339	6483	5.42		445.6	450	77.40	
	26071	7242	4.20		360.1		82.88	
	27238	7566	3.62		330.3		81.35	

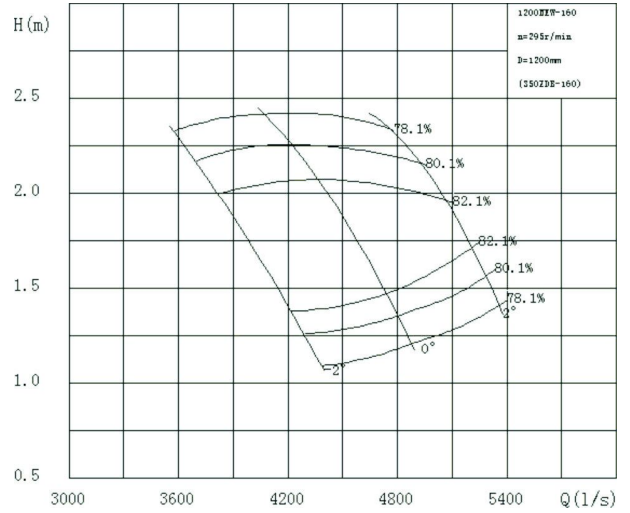
Performance Table of 1400ZDB-125J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-6°	7787	2163	2.66	295	72.2	110	78.23	1200
	9101	2528	1.96		58.5		82.97	
	10631	2953	0.98		38.6		73.98	
-4°	10094	2804	2.84		95.8	132	81.51	
	11423	3173	2.16		80.3		83.70	
	12967	3602	1.22		55.5		77.75	
-2°	13028	3619	2.73		116.0	180	83.50	
	14562	4045	1.91		90.5		83.70	
	15278	4244	1.50		76.4		81.79	
0°	15088	4191	2.98		147.8	220	82.79	
	16783	4662	2.21		120.7		83.70	
	17586	4885	1.83		105.8		82.78	
+2°	16754	4654	3.20		178.8	250	81.84	
	18580	5161	2.48		150.0		83.70	
	19444	5401	2.12		156.5		82.75	
+4°	18900	5250	3.53		234.7	180.1	77.53	
	20794	5776	2.86		195.6		82.70	
	21661	6017	2.51		180.1		82.34	

Performance Curve of 1400ZDB-160 Electric Submersible Pump



Performance Curve of 1400ZDB-160J Electric Submersible Pump



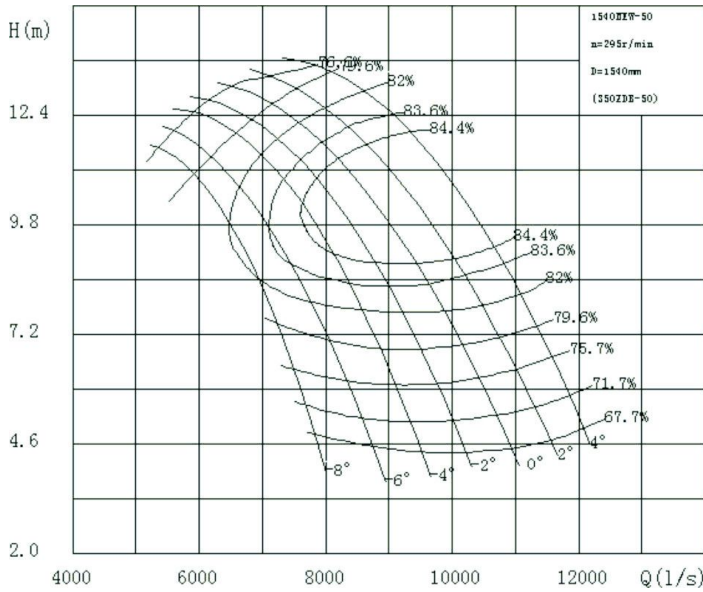
Performance Table of 1400ZDB-160 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)		
	(m ³ /h)	(l/s)			Shaft power	Motor power				
-2°	17060	4739	3.04	365	172.5	220	81.91	1200		
	18580	5161	2.23		137.7		82.10			
	19663	5462	1.58		109.0		77.71			
0°	19141	5317	3.31		213.1	250	80.99		1200	
	20660	5739	2.52		173.1		82.10			
	21688	6019	1.88		140.6		78.85			
+2°	21128	5869	3.60		264.9	280	78.14			1200
	22824	6340	2.86		216.7		82.10			
	23785	6607	2.22		180.9		79.56			

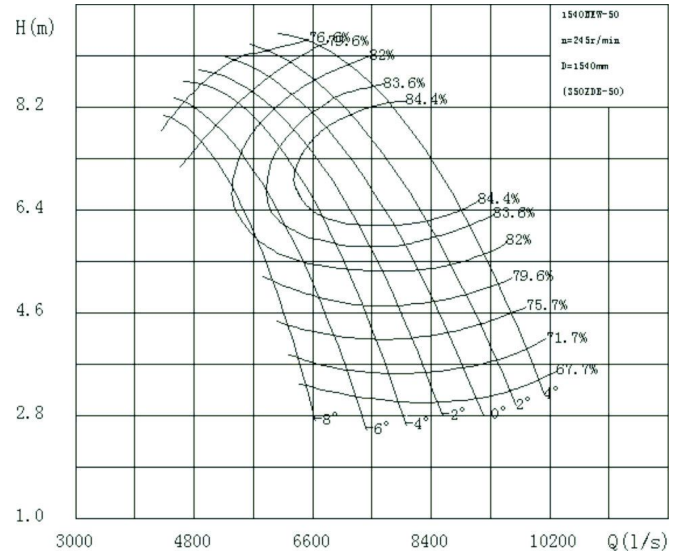
Performance Table of 1400ZDB-160J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)		
	(m ³ /h)	(l/s)			Shaft power	Motor power				
-2°	13730	3814	2.00	295	91.7	110	81.64	1200		
	15008	4169	1.46		72.6		82.10			
	15674	4354	1.14		61.6		79.35			
0°	15358	4266	2.20		114.4	132	80.55		1200	
	16646	4624	1.68		92.7		82.10			
	17269	4797	1.37		79.7		80.73			
+2°	16826	4674	2.40		142.2	155	77.47			1200
	18320	5089	1.93		117.1		82.10			
	18925	5257	1.62		102.9		81.28			

Performance Curve of 1600ZDB-50 Electric Submersible Pump



Performance Curve of 1600ZDB-50J Electric Submersible Pump



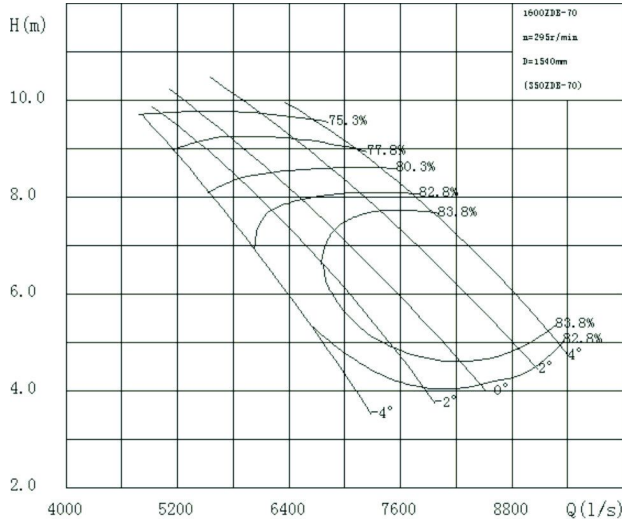
Performance Table of 1600ZDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)			Impeller diameter D (mm)			
	(m ³ /h)	(l/s)			Shaft power	Motor power	Efficiency η (%)				
-6°	22651	6292	11.28	295	866.2	900	80.41	1540			
	25924	7201	9.53		802.8		83.83				
	28786	7996	7.27		707.2		80.60				
-4°	25175	6993	11.47		955.0	1000	82.38		1540		
	28371	7881	9.73		891.4		84.40				
	31226	8674	7.49		778.4		81.89				
-2°	26741	7428	11.59		1019.7	1100	82.85			1540	
	30125	8368	9.89		961.7		84.40				
	33232	9231	7.69		847.7		82.13				
0°	28595	7943	11.75		1096.9	1200	83.46				1540
	32065	8907	10.07		1042.7		84.40				
	35356	9821	7.91		922.4		82.62				
+2°	30596	8499	11.93	1187.3	1400	83.78	1540				
	34045	9457	10.27	1129.0		84.40					
	37368	10383	8.13	1003.7		82.55					
+4°	33217	9227	12.19	1312.3	1400	84.06		1540			
	36475	10132	10.53	1240.4		84.40					
	39596	10999	8.40	1101.2		82.27					

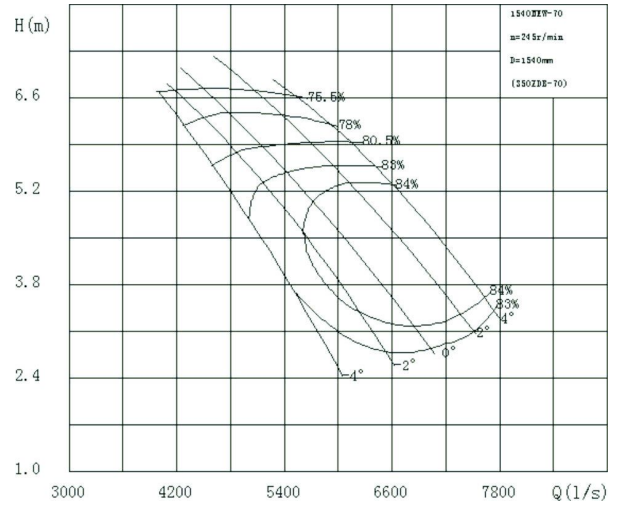
Performance Table of 1600ZDB-50J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)			Impeller diameter D (mm)			
	(m ³ /h)	(l/s)			Shaft power	Motor power	Efficiency η (%)				
-6°	17896	4971	8.06	245	498.6	560	78.79	1540			
	21946	6096	6.34		451.7		83.91				
	24512	6809	4.54		388.3		78.15				
-4°	19987	5552	8.19		553.3	630	80.66		1540		
	23936	6649	6.50		502.0		84.40				
	26510	7364	4.72		424.7		80.31				
-2°	21247	5902	8.28		590.9	710	81.19			1540	
	25405	7057	6.62		543.1		84.40				
	28210	7836	4.88		465.4		80.65				
0°	22756	6321	8.40		634.6	710	82.07				1540
	26993	7498	6.77		589.7		84.04				
	29977	8327	5.06		510.7		80.97				
+2°	24415	6782	8.54	689.4	800	82.38	1540				
	28609	7947	6.92	639.5		84.40					
	31644	8790	5.24	558.4		80.91					
+4°	26575	7382	8.73	761.5	800	83.00		1540			
	30568	8491	7.12	703.0		84.40					
	33419	9283	5.44	611.5		81.02					

Performance Curve of 1600ZDB-70 Electric Submersible Pump



Performance Curve of 1600ZDB-70J Electric Submersible Pump



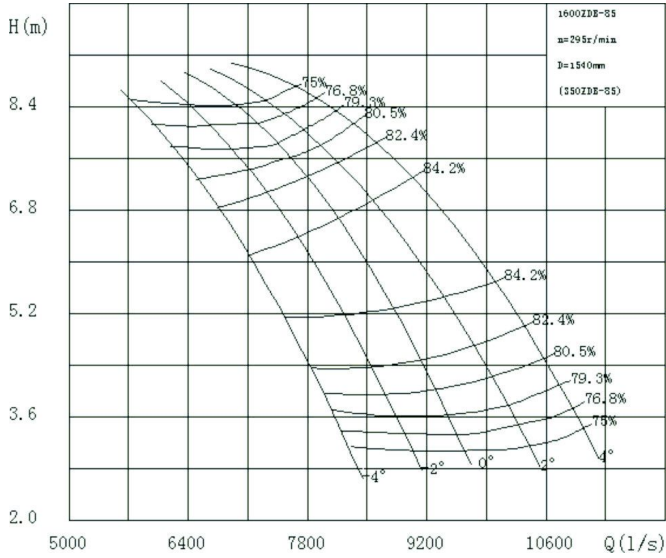
Performance Table of 1600ZDB-70 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	20387	5663	7.82	295	535.6	560	81.13	1540
	22993	6387	6.02		453.0		83.24	
	25477	7077	4.13		352.4		81.30	
-2°	21996	6110	7.94		577.9	630	82.35	
	25074	6965	6.19		504.9		83.80	
	27868	7741	4.35		396.7		83.26	
0°	23332	6481	8.05		620.8	710	82.40	
	26654	7404	6.33		549.0		83.80	
	29786	8274	4.54		440.3		83.73	
+2°	25477	7077	8.23		693.9	710	83.32	
	28890	8025	6.55		615.4		83.80	
	32083	8912	4.79		501.3		83.52	
+4°	27122	7534	8.38	759.4	800	81.54		
	30514	8476	6.72	666.6		83.80		
	33520	9311	4.95	546.9		82.71		

Performance Table of 1600ZDB-70J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	16027	4452	5.88	245	323.1	355	79.45	1540
	19051	5292	4.18		259.8		83.44	
	21172	5881	2.83		200.7		81.48	
-2°	17125	4757	5.95		347.1	400	79.96	
	20754	5765	4.30		289.6		84.00	
	23141	6428	3.00		226.5		83.47	
0°	18194	5054	6.02		373.8	400	79.81	
	22061	6128	4.41		315.3		84.00	
	24732	6870	3.14		252.1		83.94	
+2°	19912	5531	6.14		419.3	450	79.43	
	23886	6635	4.56		353.6		84.00	
	26604	7390	3.32		287.0		83.80	
+4°	21197	5888	6.24	463.6	500	77.71		
	25232	7009	4.69	383.5		84.00		
	27803	7723	3.44	313.8		83.03		

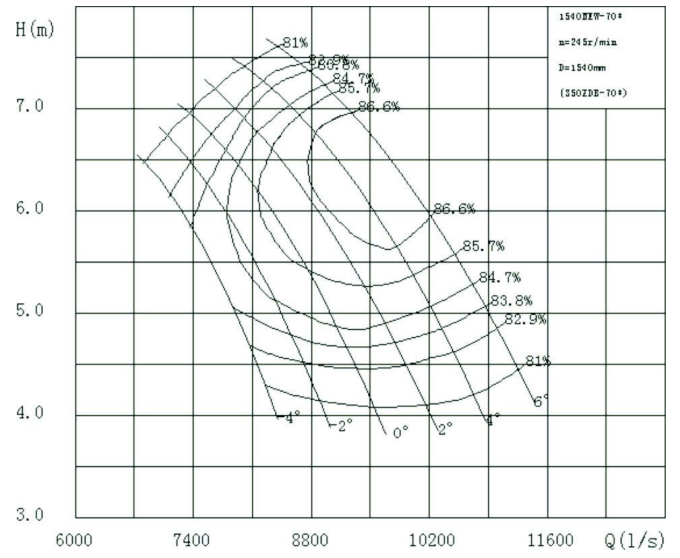
Performance Curve of 1600ZDB-85 Electric Submersible Pump



Performance Table of 1600ZDB-85 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	23681	6578	7.19	295	572.6	630	80.97	1540
	26701	7417	5.43		468.9		84.20	
	29178	8105	3.64		370.2		78.28	
-2°	25794	7165	7.35		635.8	710	81.27	
	28951	8042	5.62		526.9		84.20	
	31500	8750	3.87		412.5		80.47	
0°	27644	7679	7.51		699.3	800	80.87	
	30899	8583	5.81		580.8		84.20	
	33448	9291	4.07		459.9		80.60	
+2°	29120	8089	7.64		741.7	900	81.74	
	32825	9118	6.00		637.6		84.20	
	35744	9929	4.32		520.8		80.76	
+4°	31072	8631	7.82	803.1	900	82.49		
	34963	9712	6.23	705.0		84.20		
	37962	10545	4.58	586.7		80.68		

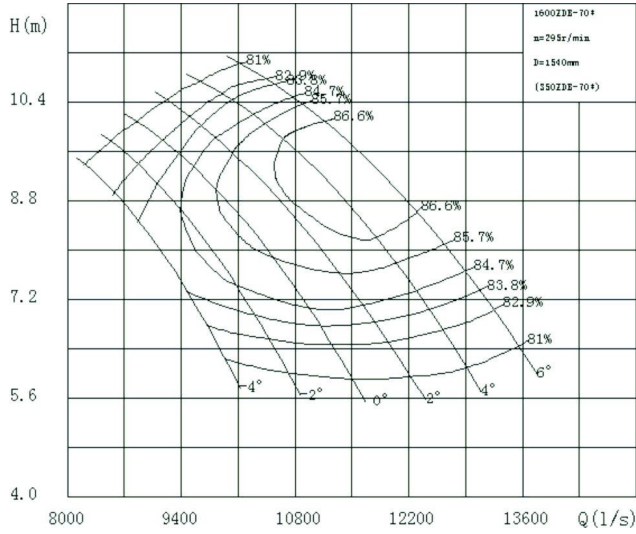
Performance Curve of 1600ZDB-85J Electric Submersible Pump



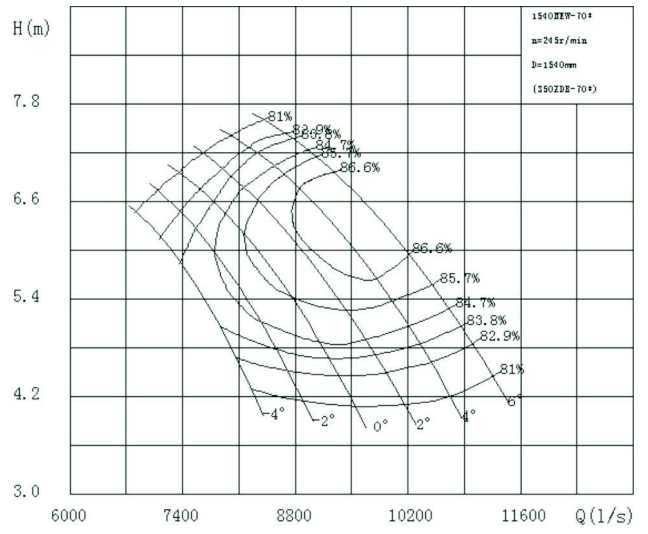
Performance Table of 1600ZDB-85J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	19289	5358	5.12	245	335.6	400	80.11	1540
	22061	6128	3.81		271.7		84.20	
	24692	6859	2.21		197.3		75.34	
-2°	20995	5832	5.23		373.4	450	80.13	
	23908	6641	3.95		305.3		84.20	
	26622	7395	2.37		223.2		77.11	
0°	22489	6247	5.34		412.1	500	79.36	
	25510	7086	4.08		336.6		84.20	
	28217	7838	2.52		242.4		79.87	
+2°	23648	6569	5.43		436.0	560	80.20	
	27086	7524	4.21		369.4		84.20	
	30193	8387	2.71		279.9		79.60	
+4°	25204	7001	5.55	469.6	560	81.20		
	28836	8010	4.38	408.4		84.20		
	32026	8896	2.90	316.5		79.87		

Performance Curve of 1600ZDB-70* Electric Submersible Pump



Performance Curve of 1600ZDB-70*J Electric Submersible Pump



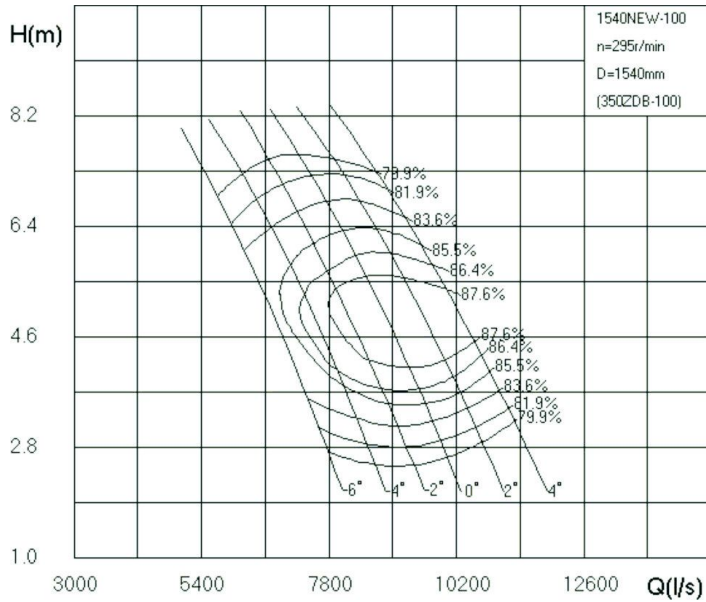
Performance Table of 1600ZDB-70* Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	30114	8365	9.22	295	925.5	1000	81.74	1540
	32321	8978	8.30		870.1		84.05	
	35302	9806	6.57		766.9		82.46	
-2°	31990	8885	9.37		984.4	1100	83.00	
	34229	9508	8.47		930.1		84.98	
	37389	10386	6.78		827.3		83.48	
0°	33840	9400	9.54		1048.4	1200	83.90	
	36205	10057	8.66		994.8		85.90	
	39589	10997	7.01		892.9		84.64	
+2°	35708	9919	9.71		1109.8	1300	85.16	
	38092	10581	8.85		1060.7		86.60	
	41659	11572	7.23		965.3		85.05	
+4°	37937	10538	9.93	1191.7	1400	86.18		
	40381	11217	9.09	1155.2		86.60		
	43952	12209	7.50	1054.1		85.16		
+6°	40000	11111	10.15	1278.9		86.51		
	42484	11801	9.32	1246.5		86.60		
	46199	12833	7.77	1151.7		84.90		

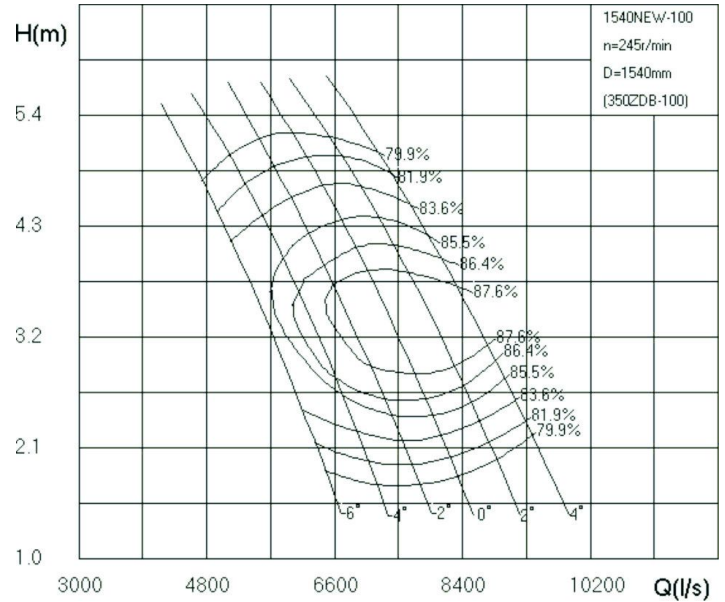
Performance Table of 1600ZDB-70*J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	24469	6797	6.50	245	537.0	560	80.74	1540
	27522	7645	5.44		484.7		84.21	
	29966	8324	4.15		422.4		80.30	
-2°	26010	7225	6.62		571.7	630	82.08	
	29099	8083	5.58		519.5		85.12	
	31727	8813	4.32		456.4		81.78	
0°	27475	7632	6.74		608.6	710	82.89	
	30748	8541	5.73		558.3		85.92	
	33566	9324	4.50		494.9		83.14	
+2°	29009	8058	6.87		646.0	800	84.05	
	32317	8977	5.87		597.4		86.60	
	35323	9812	4.68		538.8		83.62	
+4°	30787	8552	7.03	695.9		84.74		
	34182	9495	6.06	651.9		86.60		
	37174	10326	4.88	590.0		83.84		
+6°	32443	9012	7.19	742.7		85.55		
	35899	9972	6.24	705.2		86.60		
	39024	10840	5.10	645.8		83.91		

Performance Curve of 1600ZDB-100 Electric Submersible Pump



Performance Curve of 1600ZDB-100J Electric Submersible Pump



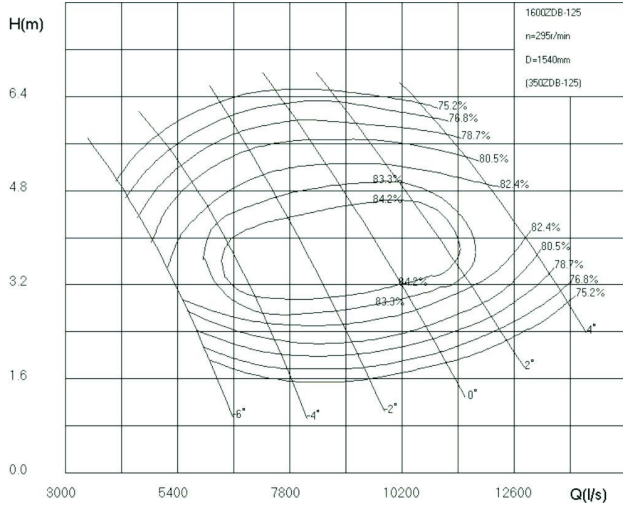
Performance Table of 1600ZDB-100 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			Shaft power	Motor power			
-6°	22414	6226	5.97	295	435.7	500	83.64	1540	
	25628	7119	4.20		343.9		85.36		
	27374	7604	3.15		285.7		82.12		
-4°	24728	6869	6.13		489.2	560	84.50		
	26262	7295	4.40		386.0		87.23		
	29844	8290	3.36		324.8		84.16		
-2°	26683	7412	6.29		538.0	630	84.99		
	30103	8362	4.58		429.3		87.60		
	31993	8887	3.56		363.4		85.51		
0°	28724	7979	6.46		593.5		710		85.21
	32224	8951	4.79		479.8				87.60
	34117	9477	3.78		406.7				86.37
+2°	30640	8511	6.63	656.3	800	84.40			
	34351	9542	5.00	534.6		87.60			
	35345	10096	4.02	459.5		86.62			
+4°	32530	9036	6.82	732.6		82.49			
	36382	10106	5.22	591.1		87.60			
	38495	10693	4.26	518.0		86.35			

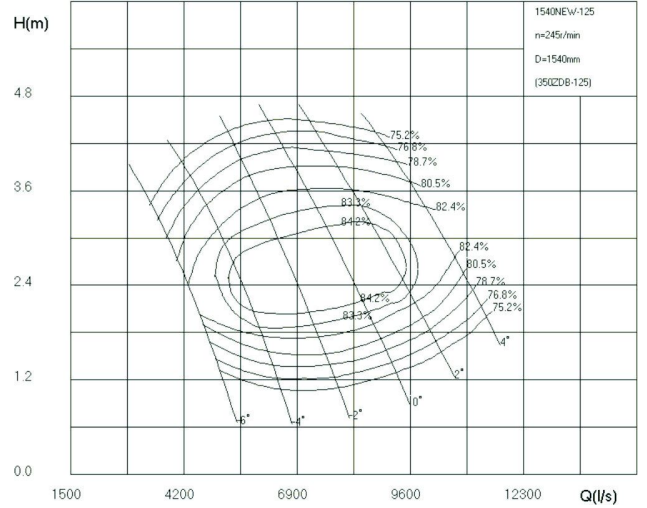
Performance Table of 1600ZDB-100J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			Shaft power	Motor power			
-6°	18544	5121	4.19	245	252.9	280	83.23	1540	
	21488	5969	2.80		192.8		85.08		
	23192	6442	1.93		152.9		79.96		
-4°	20326	5646	4.32		284.3	315	84.10		
	23479	6522	2.96		217.6		86.98		
	25211	7003	2.10		173.8		83.16		
-2°	21913	6087	4.43		313.3	355	84.52		
	25150	6986	3.10		242.4		87.60		
	26993	7498	2.27		198.1		84.13		
0°	23566	6546	4.57		366.3		400		84.65
	26878	7466	3.26		272.2				87.60
	28714	7976	2.43		222.6				85.51
+2°	25088	6969	4.69	384.2	450	83.53			
	28598	7944	3.42	304.4		87.60			
	30535	8482	2.62	253.4		86.03			
+4°	26615	7393	4.83	429.4		81.61			
	30251	8403	3.59	337.9		87.60			
	32299	8972	2.81	288.6		85.78			

Performance Curve of 1600ZDB-125 Electric Submersible Pump



Performance Curve of 1600ZDB-125J Electric Submersible Pump



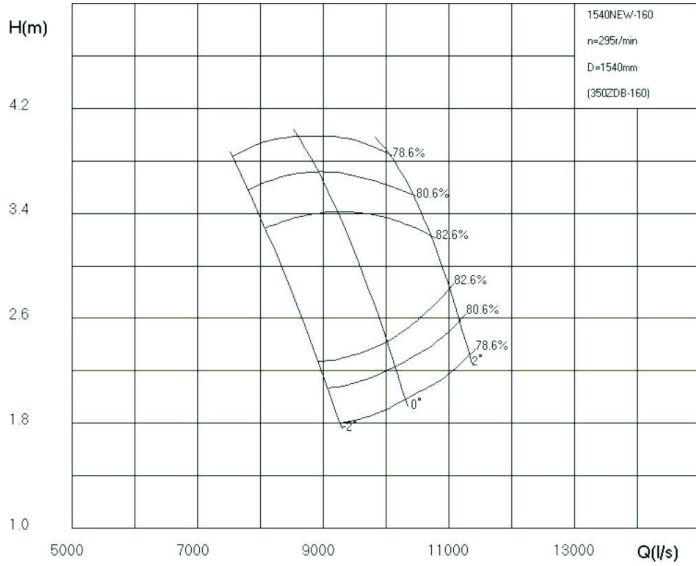
Performance Table of 1600ZDB-125 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)			
	(m ³ /h)	(l/s)			Shaft power	Motor power					
-6°	16913	4698	4.20	295	243.1	280	79.57	1540			
	20120	5589	2.80		190.1		80.87				
	22396	6221	1.65		135.6		74.47				
-4°	21755	6043	4.52		324.6	400	82.59		1540		
	24991	6942	3.19		257.6		84.20				
	27464	7629	1.98		190.2		78.07				
-2°	26464	7351	4.92		428.1	450	82.83			1540	
	29646	8235	3.63		348.0		84.20				
	32504	9029	2.38		257.1		81.93				
0°	30640	8511	5.33		543.6	630	81.90				1540
	34146	9485	4.13		456.0		84.20				
	37627	10452	2.85		353.3		82.62				
+2°	34689	9636	5.49	637.6	710	81.41	1540				
	38390	10664	4.36	541.8		84.20					
	41764	11601	3.28	450.4		82.77					
+4°	39046	10846	6.05	839.6	900	76.67		1540			
	43614	12115	4.81	688.4		82.95					
	46703	12973	3.85	600.1		81.55					

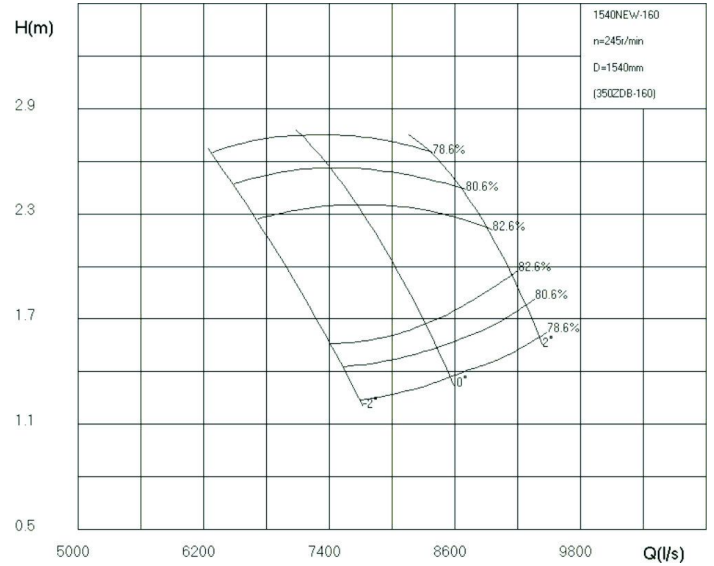
Performance Table of 1600ZDB-125J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)			
	(m ³ /h)	(l/s)			Shaft power	Motor power					
-6°	13504	3751	3.07	245	144.5	155	78.29	1540			
	16059	4461	2.19		114.8		83.42				
	18835	5232	1.03		71.4		74.38				
-4°	18128	5036	3.09		184.9	220	82.68		1540		
	20156	5599	2.41		157.3		84.20				
	22964	6379	1.29		104.5		77.45				
-2°	22154	6154	3.34		242.8	280	83.03			1540	
	24840	6900	2.43		195.2		84.20				
	27090	7525	1.60		145.0		81.68				
0°	26564	7379	3.36		291.9	315	83.40				1540
	29225	8118	2.59		244.6		84.20				
	31230	8675	1.97		202.6		82.66				
+2°	29516	8199	3.61	352.2	400	82.42	1540				
	32378	8994	2.88	301.6		84.20					
	34553	9598	2.30	260.6		82.99					
+4°	33347	9263	3.97	461.1	500	78.32		1540			
	36313	10087	3.29	391.5		83.05					
	38480	10689	2.73	348.3		82.15					

Performance Curve of 1600ZDB-160 Electric Submersible Pump



Performance Curve of 1600ZDB-160J Electric Submersible Pump



Performance Table of 1600ZDB-160 Electric Submersible Pump

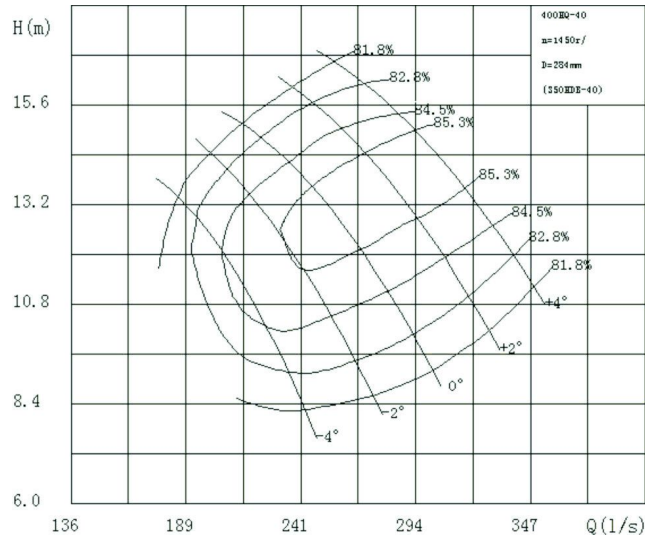
Performance Table of 1600ZDB-160J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			Shaft power	Motor power			
-2°	28292	7859	3.52	295	337.1	400	80.50	1540	
	31370	8714	2.53		262.0		82.60		
	33404	9279	1.78		205.7		78.90		
0°	33059	9183	3.46		378.9	82.16			
	35035	9732	2.81		324.9	82.60			
	36918	10255	2.07		260.9	79.67			
+2°	36702	10195	3.75		471.7	79.48	500		82.60
	38840	10789	3.13		401.6	82.60			
	40615	11282	2.40		331.1	80.09			

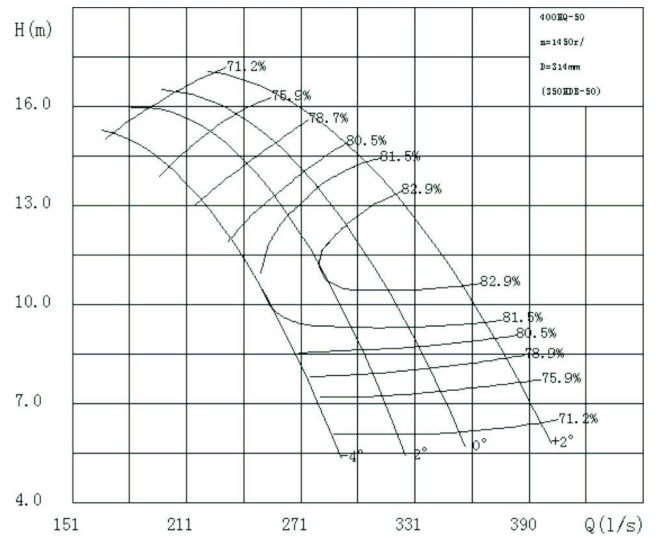
Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			Shaft power	Motor power			
-2°	23950	6653	2.31	245	184.8	220	81.73	1540	
	26042	7234	1.74		149.9		82.60		
	27389	7608	1.33		124.0		80.32		
0°	26942	7484	2.50		226.9	81.03			
	29063	8073	1.95		187.2	82.60			
	30316	8421	1.54		157.2	81.19			
+2°	29761	8267	2.70		280.0	78.30	315		82.60
	32169	8936	2.19		232.4	82.60			
	33376	9271	1.79		200.1	81.24			

5.2 Performance Curve and Performance Table of HDB Mixed Flow Electric Submersible Pump

Performance Curve of 400HDB-40 Electric Submersible Pump



Performance Curve of 400HDB-50 Electric Submersible Pump



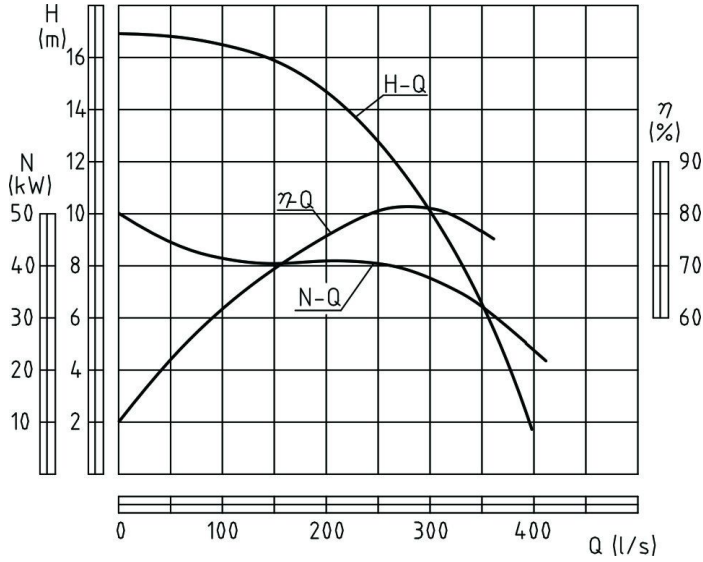
Performance Table of 400HDB-40 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	630	175	13.8	1450	30.58	YQGN	80.95	283.5
	756	210	11.7		29.54	260-4	84.89	
	868	241	8.61		25.69	37	82.28	
-2°	752	209	14.0		35.88	YQGN	82.93	
	864	240	11.8		34.01	260-4	85.30	
	983	273	8.79		29.85	40	81.95	
0°	799	222	14.9		40.66	YQGN	82.62	
	925	257	13.0		39.94	260-4	85.30	
	1094	304	8.98		34.32	45	81.36	
+2°	925	257	15.2		47.42	YQGN	84.11	
	1030	286	13.5		46.18		85.30	
	1217	338	9.21		39.31		80.76	
+4°	1026	285	15.5	53.35	368-4	84.27		
	1130	314	13.8	51.79		85.30		
	1328	369	9.44	43.26		65	82.16	

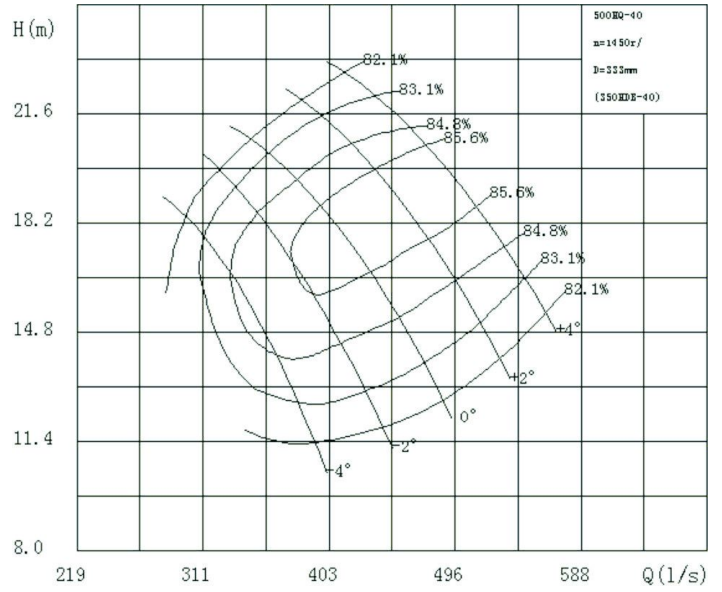
Performance Table of 400HDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	666	185	14.43	1450	36.82	YQGN	73.7	311
	864	240	10.60		31.93	260-4	81.4	
	986	274	6.62		24.86	40	74.5	
-2°	810	225	14.63		43.58	YQGN	77.0	
	986	274	10.82		36.61	260-4	82.8	
	1102	306	6.85		28.81	45	74.4	
0°	889	247	14.76		47.53	YQGN	78.1	
	1076	299	11.00		40.56		82.8	
	1206	335	7.08		32.45		74.7	
+2°	1008	280	14.98		53.56	368-4	79.7	
	1206	335	11.28		46.59		82.8	
	1350	375	7.43		37.86		65	

Performance Curve of 400HDB-50 Electric Submersible Pump



Performance Curve of 500HDB-40 Electric Submersible Pump



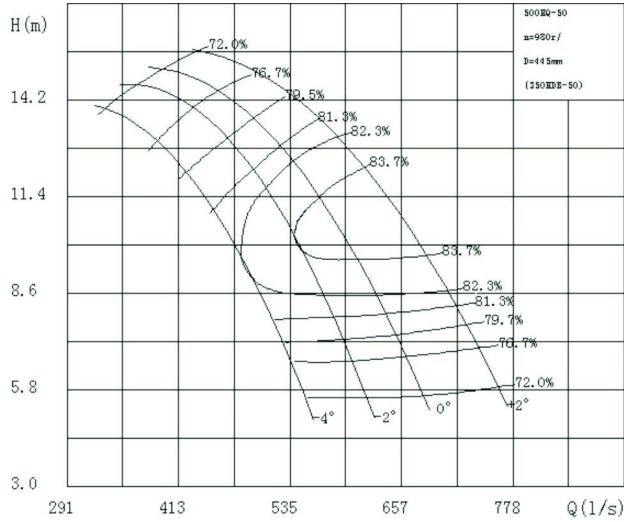
Performance Table of 400HDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
	1110	310	10.2	1450	38.3	YQGN 260-4 45	81	311

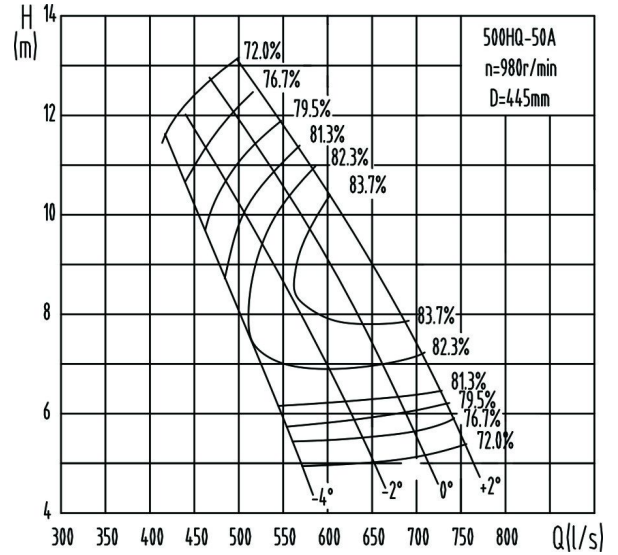
Performance Table of 500HDB-40 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	932	259	19.58	1450	64.17	YQGN	80.62	333
	1271	353	15.07		63.65	368-4	85.30	
	1310	364	14.14		61.98	75	84.85	
-2°	1159	322	19.89		79.77	YQGN	82.06	
	1343	373	17.21		76.65	368-4	85.55	
	1483	412	14.46		71.66	85	84.86	
0°	1314	365	20.15		89.86	YQGN	83.52	
	1512	420	17.52		87.57	368-4	85.60	
	1656	460	14.82		82.47	84.37		
+2°	1523	423	20.54		104.4	368-4	84.98	
	1602	445	19.50		103.4	110	85.60	
	1843	512	15.25		95.58	83.29		
+4°	1688	469	20.89	117.2	YQGN	85.25		
	1764	490	19.86	116.1	462-4	85.60		
	2009	558	15.68	108.6	130	82.22		

Performance Curve of 500HDB-50 Electric Submersible Pump



Performance Curve of 500HDB-50A Electric Submersible Pump



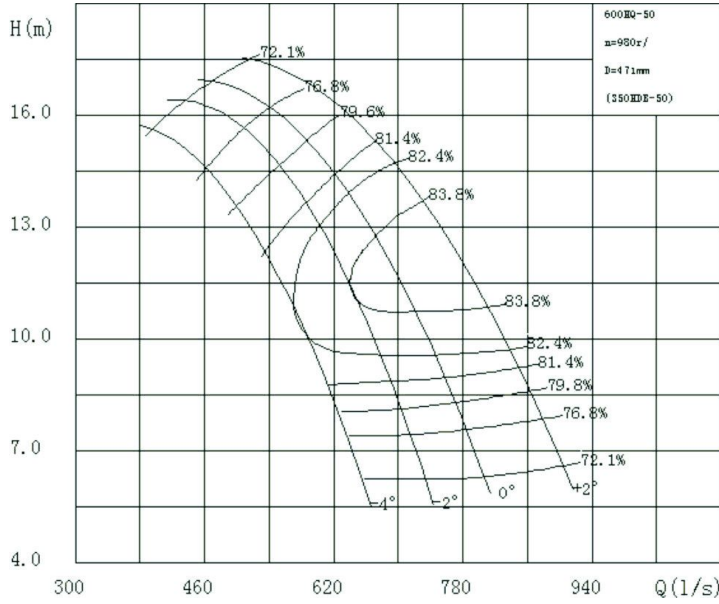
Performance Table of 500HDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	1620	450	11.1	980	62.9	YQGN	81.27	445
	1731	481	9.72		57.9	368-6	82.32	
	1948	541	6.36		46.0	65	76.28	
-2°	1854	515	11.4		72.2	YQGN	82.75	
	1962	545	9.98		66.4	368-6	83.70	
	2171	603	6.64		53.3	80	76.57	
0°	2027	563	11.6		79.1	YQGN	83.60	
	2146	596	10.2		74.1	368-6	83.70	
	2376	660	6.92		60.4	90	77.05	
+2°	2264	629	11.9		91.0	YQGN	83.70	
	2394	665	10.6		85.5	368-6	83.70	
	2650	736	7.34		70.6	110	78.04	

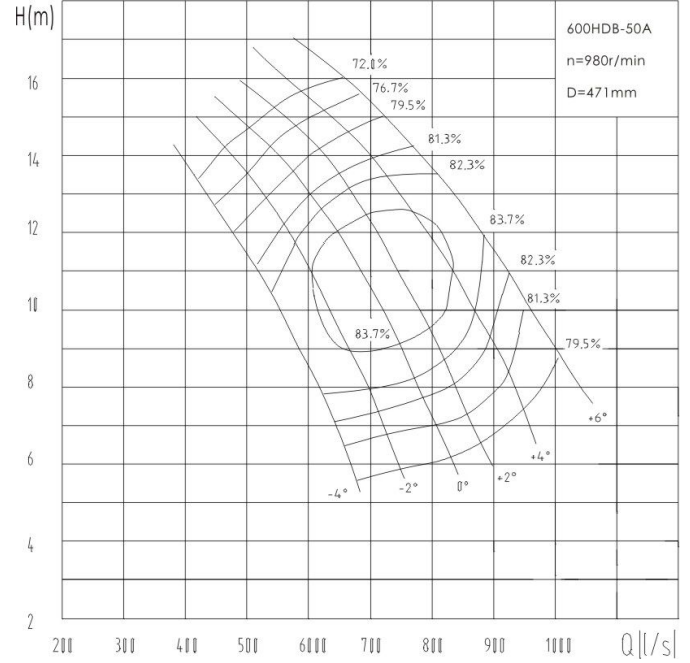
Performance Table of 500HDB-50A Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	(kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	1620	450	10.2	980	55.2	YQGN	81.0	445
	1800	500	8.00		49.5	368-6	82.4	
	1973	548	6.08		41.9	65	81.0	
-2°	1656	460	11.2		64.8	YQGN	81.0	
	1951	542	9.00		59.3	368-6	83.8	
	2214	615	6.5		50.3	75	81.0	
0°	1800	500	11.9		74.9	YQGN	81.0	
	2070	575	10.0		69.9	368-6	83.8	
	2412	670	6.70		56.5	80	81.0	
+2°	1926	535	12.2		84.8	YQGN	81.0	
	2178	606	10.5		77.3	368-6	83.8	
	2563	712	7.00		62.7	90	81.0	

Performance Curve of 600HDB-50 Electric Submersible Pump



Performance Curve of 600HDB-50A Electric Submersible Pump



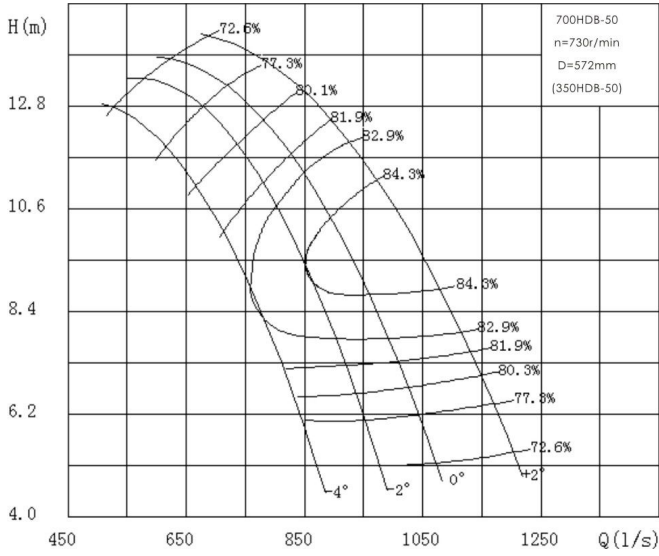
Performance Table of 600HDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	1602	445	14.3	980	84.3	YQGN	77.0	471
	2088	580	10.2		73.1	520-6	82.5	
	2304	640	7.42		62.9	95	77.0	
-2°	1710	475	15.2		95.6	YQGN	77.0	
	2322	645	11.0		87.2	520-6	83.0	
	2574	751	7.5		71.0	115	77.0	
0°	1847	513	15.9		108.0	YQGN	77.0	
	2459	683	12.0		99.6	520-6	83.9	
	2844	790	7.65		80.0	77.0		
+2°	2052	570	16.8		126.8	520-6	77.0	
	2808	780	12.0		113.7	130	83.9	
	3186	885	7.9		92.6	77.0		

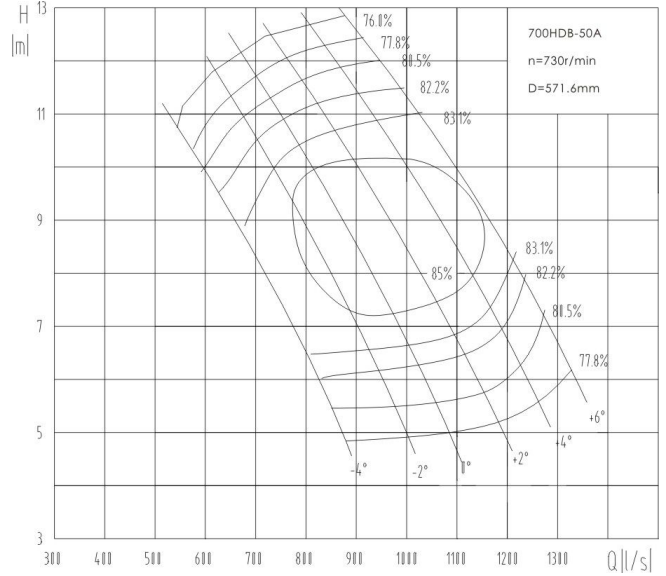
Performance Table of 600HDB-50A Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	(kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	1602	445	12.9	980	73.09	YQGN	77.0	471
	2106	585	9.00		62.57	462-6	82.5	
	2412	670	5.80		49.48	77.0		
-2°	1782	495	13.65		86.03	462-6	77.0	
	2322	645	10.0		75.37	95	83.9	
	2718	755	5.90		56.72	77.0		
0°	1926	535	14.2		96.73	YQGN	77.0	
	2520	700	10.5		85.88	462-6	83.9	
	2952	820	5.25		55.25	115	77.0	
+2°	2027	575	14.7		107.6	YQGN	77.0	
	2700	750	11.0		96.40	462-6	83.9	
	3118	880	6.70		75.70	130	77.0	

Performance Curve of 700HDB-50 Electric Submersible Pump



Performance Curve of 700HDB-50A Electric Submersible Pump



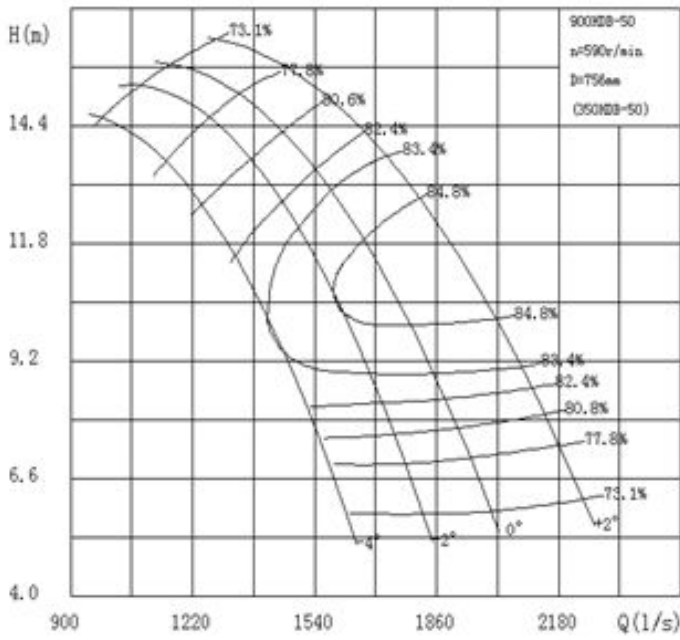
Performance Table of 700HDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	2531	703	10.3	730	90.9	YQGN 520-8	81.58	571.6
	2725	757	8.96		83.5		82.9	
	3060	850	5.89		66.6		76.82	
-2°	2902	806	10.6		105.0	110	82.91	
	3092	859	9.21		95.7		84.3	
	3420	950	6.16		77.0		77.64	
0°	3164	879	10.8		115.0	YQGN 520-8	83.93	
	3366	935	9.42		106.6		84.3	
	3733	1037	6.42		86.1		130	
+2°	3535	982	11.1		131.3	YQGN 520-8	84.3	
	3758	1044	9.74		123.0		84.3	
	4165	1157	6.81		102.0		155	

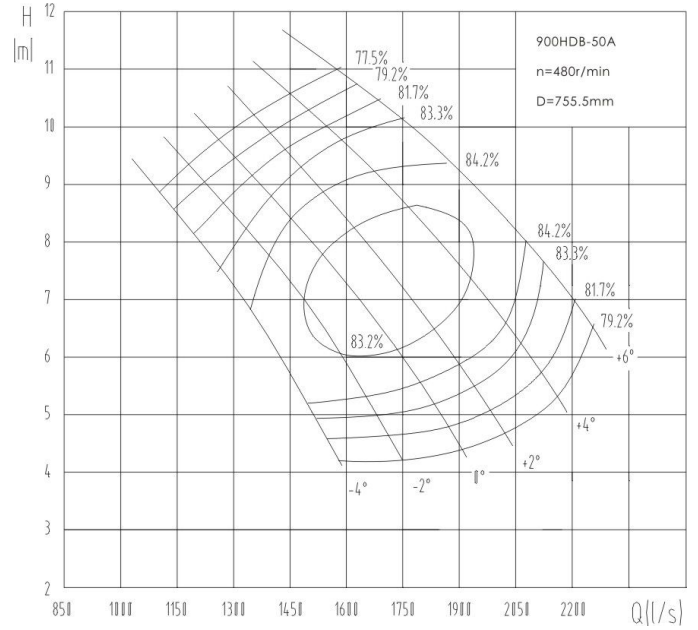
Performance Table of 700HDB-50A Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)	
	(m ³ /h)	(l/s)			Shaft power	Motor power			
-4°	2124	590	10.5	730	78.90	YQGN 462-6 90	80.0	571.6	
	2794	776	7.30		69.60		462-6		83.0
	3197	888	4.70		52.80		90		80.5
-2°	2362	656	11.1		90.20	YQGN 462-6 110	82.3		
	3078	855	8.20		84.60		84.5		
	3604	1001	4.80		61.30		80.0		
0°	2552	709	11.6		104.2	110	80.5		
	3341	928	8.60		96.30		84.5		
	3913	1087	5.10		71.90		81.0		
+2°	2747	763	12.0		116.5	YQGN 462-6 132	80.2		
	3582	995	9.00		108.2		84.5		
	4201	1167	5.50		79.80		132		82.0

Performance Curve of 900HDB-50 Electric Submersible Pump



Performance Curve of 900HDB-50A Electric Submersible Pump



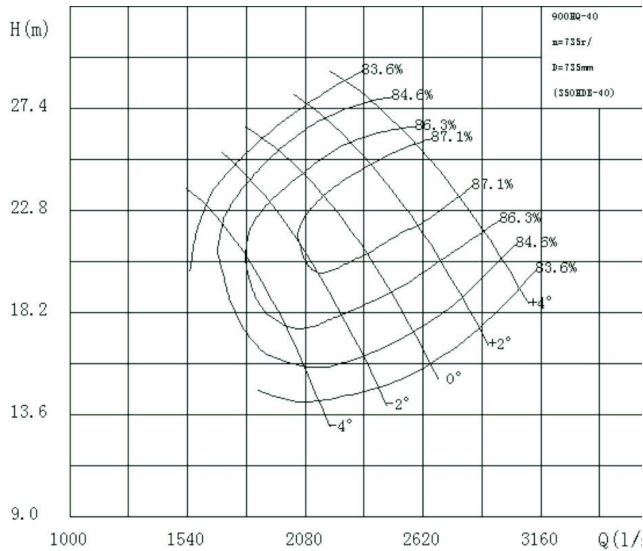
Performance Table of 900HDB-50 Electric Submersible Pump

Performance Table of 900HDB-50A Electric Submersible Pump

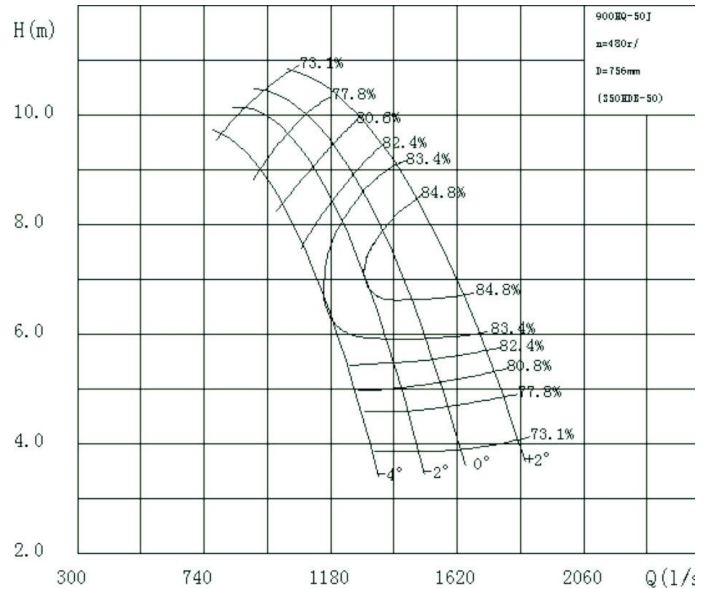
Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	4597	1277	12.3	590	196.1	YQGN	81.41	755.5
	5083	1412	10.2		176.9	740-10	83.39	
	5731	1592	6.59		140.1	250	76.43	
-2°	5296	1471	12.5		226.6	YQGN 740-10	82.88	
	5767	1602	10.5		202.8		84.62	
	6408	1780	6.88		161.9		77.17	
0°	5782	1606	12.7		248.2	280	83.91	
	6289	1747	10.7		225.4		84.8	
	6995	1943	7.17		181.3		78.18	
+2°	6469	1797	13.0		282.8	YQGN 740-10	84.39	
	7024	1951	11.1		260.1		84.8	
	7805	2168	7.6		208.9		315	

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	3790	1053	8.8	590	120	YQGN 740-10	79.2	755.5
	5097	1416	6.0		103		84.2	
	5587	1552	4.3		83		81.7	
-2°	4500	1250	9.0		140	155	81.7	
	5400	1500	7.0		126		85.4	
	6300	1750	4.2		94		80.4	
0°	4500	1250	9.8		158	YQGN 740-10	79.2	
	6016	1671	7.0		139		85.4	
	6678	1855	5.0		114		82.5	
+2°	4831	1342	10.1		175	180	79.4	
	6300	1750	7.5		157		85.4	
	7200	2000	5.1		128		81.7	
+4°	5587	1552	10.0	193	YQGN 740-10	81.7		
	6861	1894	8.0	184		84.2		
	7765	2157	5.8	156		81.7		
+6°	6393	1776	10	216	250	84.0		
	7200	2000	8.8	213		84.2		
	8100	2250	6.9	193		81.7		

Performance Curve of 900HDB-40 Electric Submersible Pump



Performance Curve of 900HDB-50J Electric Submersible Pump



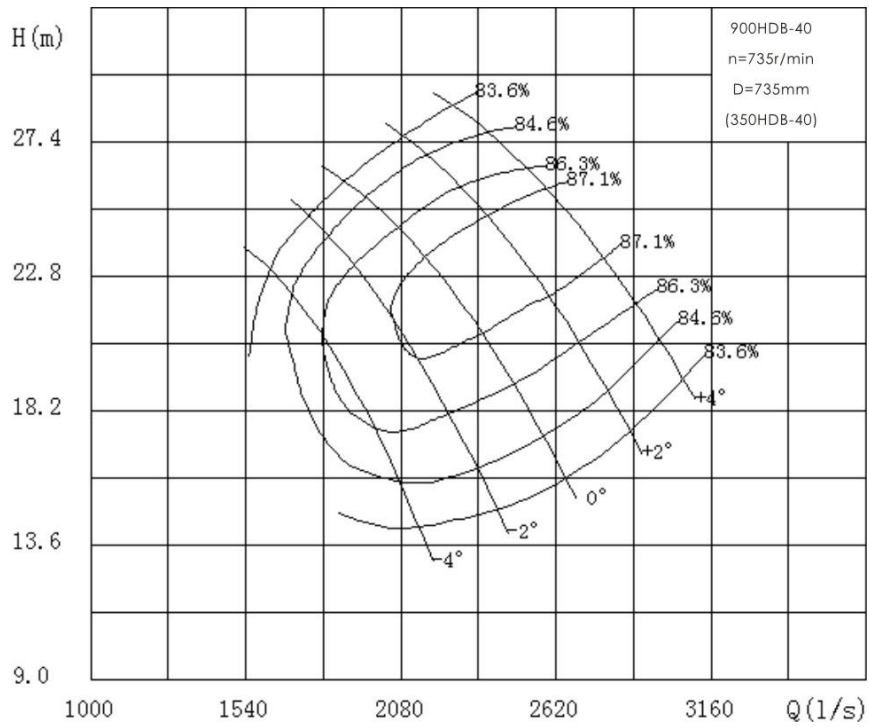
Performance Table of 900HDB-40 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	5652	1570	23.5	735	453.5	YQGN	83.07	735
	6296	1749	21.6		450.6	990-8	85.46	
	7387	2052	16.3		399.3	500	85.17	
-2°	6678	1855	23.9		531.7	YQGN	85.14	
	7232	2009	22.0		517.6	990-8	87.04	
	8348	2319	16.7		465.0	560	85.15	
0°	7509	2086	24.3		597.7	YQGN	86.53	
	8096	2249	22.4		589.3	990-8	87.2	
	9277	2577	17.3		535.3	630	84.79	
+2°	8571	2381	24.9		692.6	YQGN	87.17	
	9115	2532	23.0		680.4	990-8	87.2	
	10274	2854	17.9		619.9	710	84.0	
+4°	9464	2629	25.4	780.4	YQGN	87.2		
	10011	2781	23.5	765.0	990-8	87.2		
	11185	3107	18.5	703.1	800	83.44		

Performance Table of 900HDB-50J Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	N (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	2959	822	9.59	480	113.5	YQGN	73.90	755.5
	4136	1149	6.76		97.69	740-12	83.40	
	4687	1302	4.24		76.08	132	76.28	
-2°	3654	1015	9.73		134.1	YQGN	77.33	
	4698	1305	6.92		111.8	740-12	84.80	
	5245	1458	4.36		87.85	155	75.91	
0°	4054	1126	9.84		147.8	YQGN	78.70	
	5134	1426	7.06		124.6	740-12	84.80	
	5749	1597	4.47		98.44	180	76.14	
+2°	4586	1274	9.98		166.2	YQGN	80.38	
	5731	1592	7.27		143.3	740-12	84.80	
	6444	1790	4.64		114.5	200	76.18	

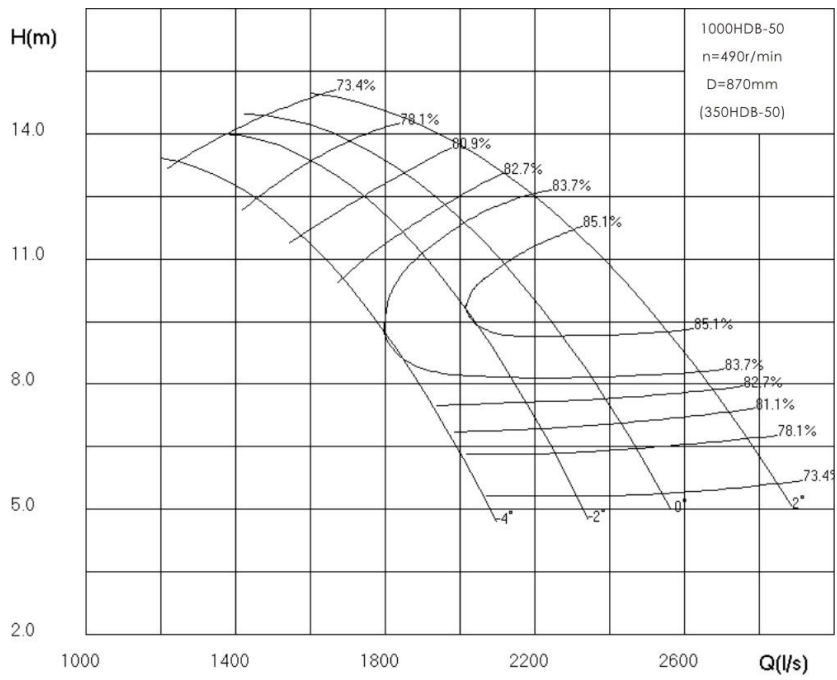
Performance Curve of 900HDB-40 (φ778) Electric Submersible Pump



Performance Table of 900HDB-40 (φ778) Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	6426	1785	17.08	590	360	YQGN 850-10 400	85.56	778
	6505	1807	13.95		292.8		86.97	
	6919	1922	12.28		277.9		85.81	
-2°	6318	1755	17.34		361.7		84.99	
	7319	2033	14.46		340.7		87.2	
	7816	2171	12.63		322.6		85.88	
0°	6815	1893	18.24		409.8	YQGN 850-10 500	85.1	
	7585	2107	16.54		403.7		87.2	
	8698	2416	13.02		371.7		85.51	
+2°	7859	2183	18.65		475.8		86.44	
	8554	2376	16.95		466.9		87.2	
	9641	2678	13.48		431.5		84.55	
+4°	8687	2413	19.02	535.5	YQGN 850-10 560	86.6		
	9385	2607	17.35	524.2		87.2		
	10494	2915	13.94	490.8		83.67		

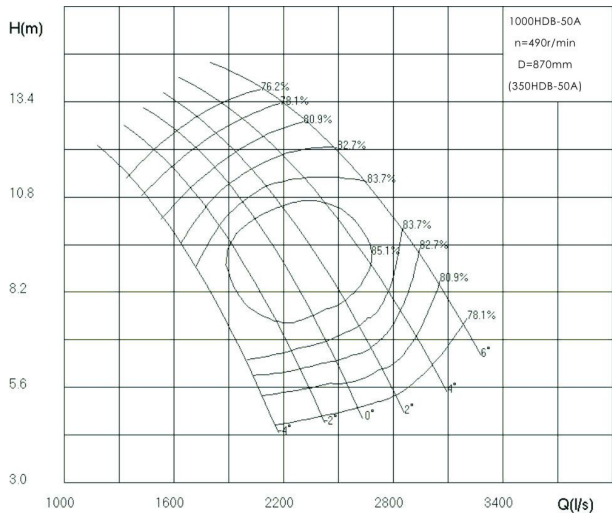
Performance Curve of 1000HDB-50 Electric Submersible Pump



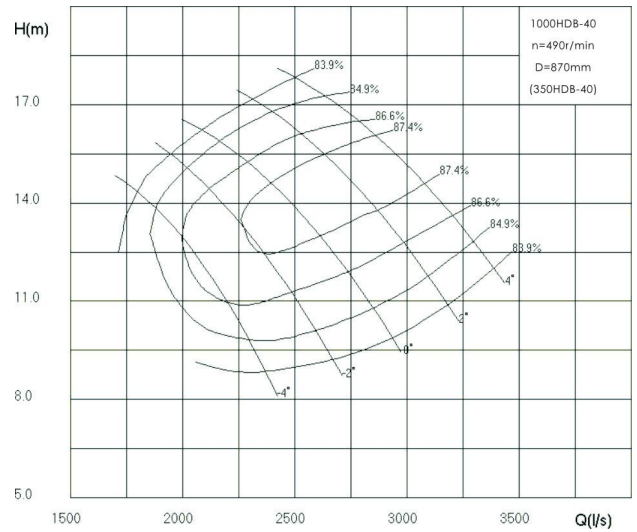
Performance Table of 1000HDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
+2°	7257	2016	13.60	490	332.4	375	81.23	870
	8856	2460	10.27		291.1		85.10	
	9734	2704	7.53		244.9		81.57	
0°	6419	1783	13.47		296.1	330	79.5485.10	
	7920	2200	10.01		254.0		81.42	
	8708	2419	7.23		210.6			
-2°	6430	1786	12.17		260.9	280	81.72	
	6800	1889	9.85		228.4		85.09	
	7960	2211	7.02		188.6		80.80	
-4°	5486	1524	11.99		225.0	250	79.63	
	6354	1765	9.65		200.0		83.57	
	7096	1971	6.81		162.7		80.97	

Performance Curve of 1000HDB-50A Electric Submersible Pump



Performance Curve of 1000HDB-40 Electric Submersible Pump



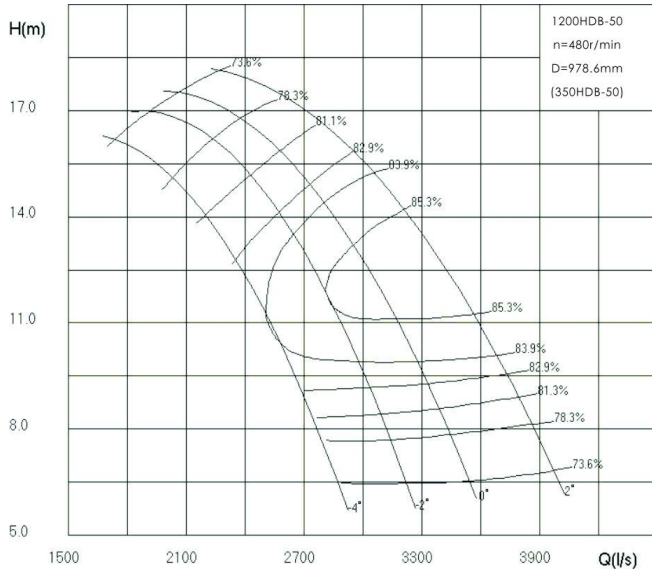
Performance Table of 1000HDB-50A Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	5425	1507	10.47	490	193.1	210	80.20	870
	6300	1750	8.64		176.0		84.29	
	7333	2037	5.86		141.6		82.78	
-2°	6322	1756	10.64		222.1	250	82.55	
	7200	2000	8.83		203.7		85.10	
	8248	2291	6.09		165.2		82.89	
0°	7048	1958	10.80		247.6	280	83.76	
	7916	2199	9.01		228.4		85.10	
	8964	2490	6.29		185.3		82.95	
+2°	7661	2128	10.94		270.7	310	84.37	
	8579	2383	9.18		252.2		85.10	
	9713	2698	6.52		209.6		82.29	
+4°	8431	2342	11.14	303.7	330	84.30		
	9403	2612	9.42	283.6		85.10		
	9536	2946	6.81	245.2		80.26		
+6°	9130	2536	11.84	353.2	375	83.40		
	10220	2839	9.98	332.7		83.55		
	11538	3205	7.14	289.5		77.52		

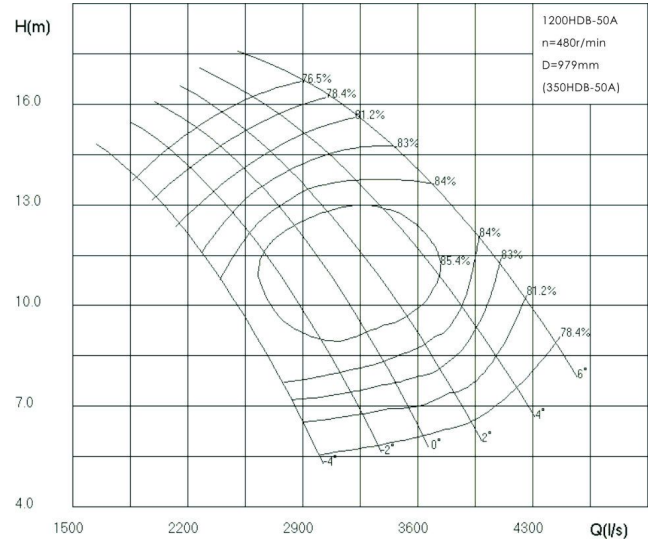
Performance Table of 1000HDB-40 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	5310	1475	15.4	490	271.6	310	82.06	870
	6995	1943	13.39		297.7		85.72	
	7912	2206	10.89		272.6		86.50	
-2°	6880	1911	15.67		351.8	375	83.52	
	8021	2228	13.61		340.9		87.27	
	8989	2497	11.15		315.8		86.46	
0°	7808	2169	15.86		397.6	450	84.92	
	9011	2503	13.85		389.2		87.40	
	10030	2786	11.43		363.0		86.01	
+2°	9072	2520	16.17		462.2	500	86.45	
	10152	2820	14.16		448.3		87.40	
	11146	3096	11.76		420.4		84.95	
+4°	10069	2797	16.44	519.9	560	86.73		
	11149	3097	14.46	502.6		87.40		
	12161	3378	12.10	477.8		83.90		

Performance Curve of 1200HDB-50 Electric Submersible Pump



Performance Curve of 1200HDB-50A Electric Submersible Pump



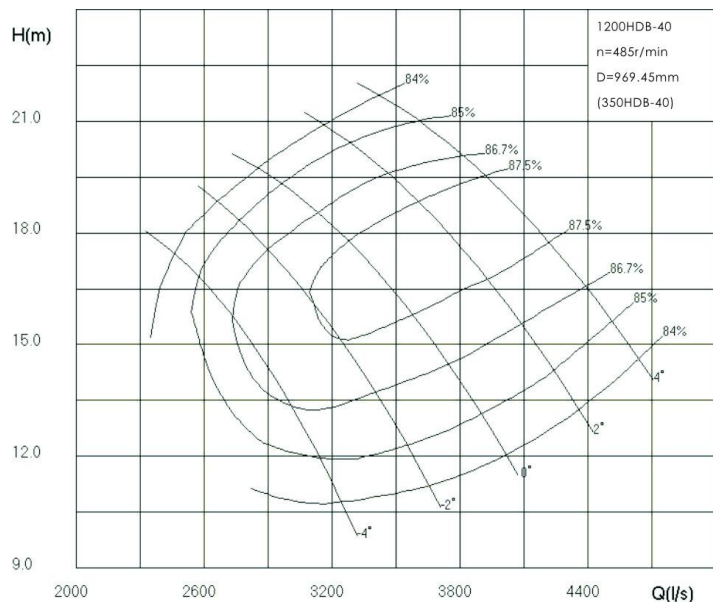
Performance Table of 1200HDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	7380	2050	15.00	480	383.8	450	78.61	978.6
	8863	2462	11.71		337.6		83.77	
	9738	2705	8.85		284.5		82.59	
-2°	8730	2425	15.20		445.6	500	81.14	
	10105	2807	11.92		384.9		85.30	
	10951	3042	9.08		327.8		82.67	
0°	9270	2575	15.88		495.2	560	81.03	
	11059	3072	12.10		427.6		85.30	
	11984	3329	9.30		365.9		82.97	
+2°	10465	2907	16.10		556.4	630	82.50	
	12380	3439	12.38		489.8		85.30	
	13414	3726	9.62		423.1		83.13	

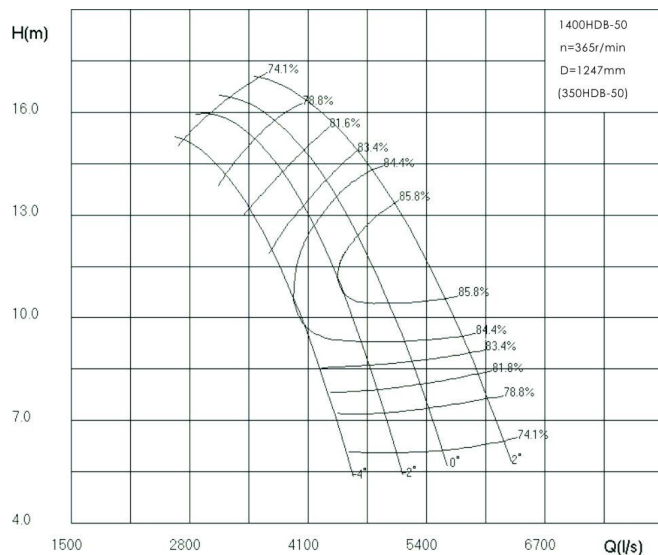
Performance Table of 1200HDB-50A Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	7150	1986	13.35	480	332.0	375	78.32	979
	8834	2454	10.39		295.0		84.73	
	10296	2860	6.93		235.5		82.58	
-2°	8410	2336	13.52		381.6	425	81.21	
	10098	2805	10.60		341.4		85.40	
	11020	3061	8.57		302.4		85.08	
0°	9446	2624	13.68		424.1	500	83.06	
	11113	3087	10.79		382.4		85.40	
	12028	3341	8.77		339.2		84.78	
+2°	10300	2861	13.83		464.8	560	83.54	
	12049	3347	10.98		422.1		85.40	
	13046	3624	9.00		379.6		84.25	
+4°	11383	3162	14.04	520.2	630	83.71		
	13230	3675	11.24	474.4		85.40		
	14285	3968	9.29	436.7		82.83		
+6°	12697	3527	14.42	596.3	630	83.67		
	14166	3935	12.26	563.6		83.99		
	15610	4336	9.64	513.1		79.93		

Performance Curve of 1200HDB-40 Electric Submersible Pump



Performance Curve of 1400HDB-50 Electric Submersible Pump



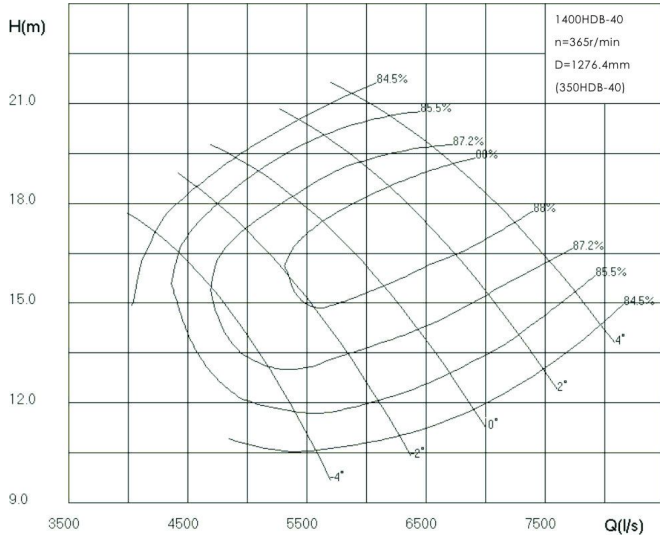
Performance Table of 1200HDB-40 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	9061	2517	17.16	485	501.3	560	84.53	969.5
	10256	2849	14.84		475.4		87.24	
	11290	3136	12.02		434.4		85.14	
-2°	9918	2755	18.39		585.4	630	84.89	
	11473	3187	15.55		555.7		87.50	
	12780	3550	12.31		504.0		85.05	
0°	10476	2910	19.54		660.3	710	84.46	
	12208	3391	17.09		649.7		87.50	
	14245	3957	12.62		579.4		84.56	
+2°	12125	3368	20.06		773.1	800	85.73	
	13691	3803	17.63		751.6		87.50	
	15278	4244	14.27		698.9		85.00	
+4°	13399	3722	20.52		872.6	900	85.85	
	14969	4158	18.14		845.5		87.50	
	16592	4609	14.86		799.0		84.09	

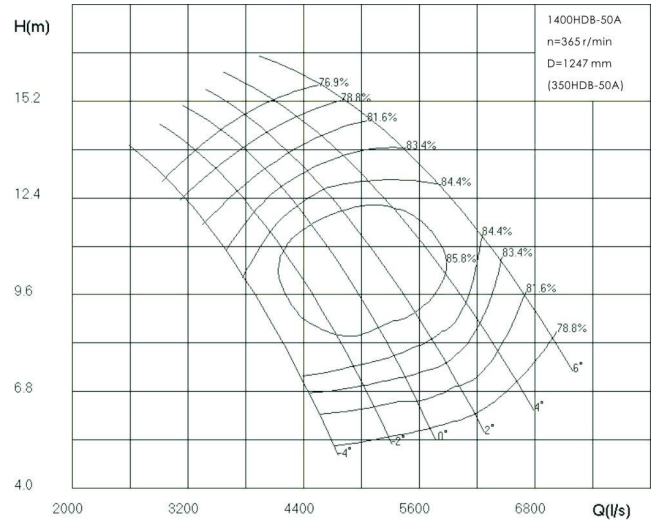
Performance Table of 1400HDB-50 Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	10825	3007	14.71	365	564.5	630	76.87	1247
	14051	3903	10.81		490.8		84.35	
	15505	4307	7.90		406.9		82.06	
-2°	12604	3501	15.27		666.7	710	78.65	
	15840	4400	11.31		569.2		85.77	
	17406	4835	8.14		470.8		81.97	
0°	13990	3886	15.40		734.0	800	80.00	
	17320	4811	11.50		632.3		85.80	
	19040	5289	8.36		525.6		82.53	
+2°	15851	4403	15.61		824.6	900	81.78	
	19372	5381	11.78		724.7		85.80	
	21290	5914	8.70		610.9		82.64	

Performance Curve of 1400HDB-40 Electric Submersible Pump



Performance Curve of 1400HDB-50A Electric Submersible Pump



Performance Table of 1400HDB-40 Electric Submersible Pump

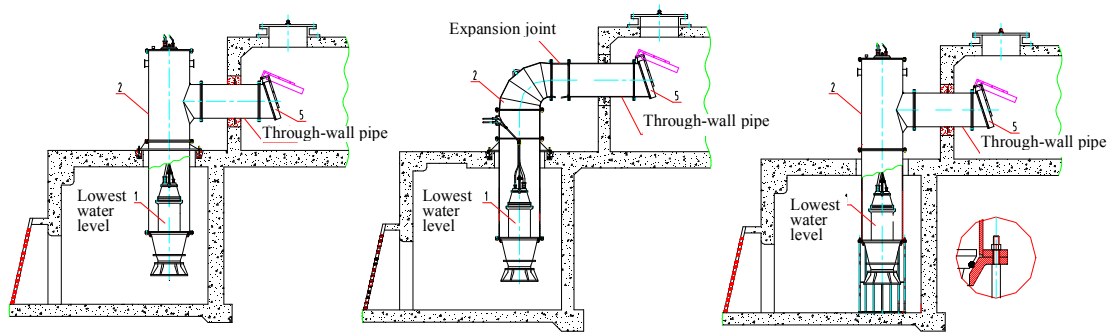
Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	15156	4210	17.18	365	839.7	900	84.51	1276.4
	17374	4826	14.90		805.1		87.62	
	19228	5341	12.10		737.7		85.95	
-2°	17730	4925	17.44		971.1	1100	86.73	
	19786	5496	15.17		929.2		88.00	
	21744	6040	12.41		855.5		85.94	
0°	18288	5080	19.00		1108.7	1200	85.40	
	20941	5817	16.81		1089.9		88.00	
	23796	6610	13.36		1004.6		86.24	
+2°	21287	5913	19.35		1290.7	1400	86.96	
	23652	6570	17.17		1257.4		88.00	
	26330	7314	13.89		1167.4		85.36	
+4°	23641	6567	19.67		1451.7	1500	87.27	
	25996	7221	17.51		1409.9		88.00	
	28634	7954	14.42		1331.6		84.49	

Performance Table of 1400HDB-50A Electric Submersible Pump

Installation angle of blade	Flow (Q)		Head H (m)	Speed n (r/min)	Power (kW)		Efficiency η (%)	Impeller diameter D (mm)
	(m ³ /h)	(l/s)			Shaft power	Motor power		
-4°	12304	3148	12.48	365	487.4	560	78.92	1247
	14285	3968	9.27		421.0		85.67	
	15926	4421	6.95		358.7		84.04	
-2°	13276	3688	12.66		560.6	630	81.73	
	16261	4517	9.47		490.3		85.80	
	17920	4978	7.21		418.2		84.13	
0°	13777	3827	13.71		642.7	710	80.09	
	17089	4747	10.60		575.1		85.80	
	19490	5414	7.43		469.0		84.09	
+2°	15102	4195	13.86		700.2	800	81.43	
	18522	5145	10.79		634.6		85.80	
	21125	5868	7.68		528.5		83.59	
+4°	16715	4643	14.05		776.6	900	82.39	
	20315	5643	11.05		712.9		85.80	
	23076	6410	8.00		616.6		81.57	
+6°	18868	5241	14.34	888.2	1000	82.99		
	22417	6227	11.39	825.5		84.26		
	25124	6979	8.37	727.5		78.76		

6. Structure Installation Form of Electric Submersible Pump (already implemented and a

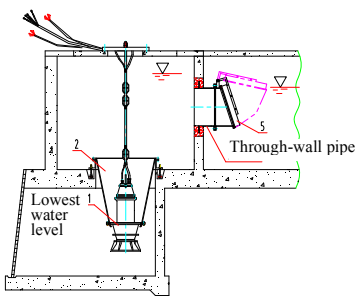
6.1 Structure Installation Form of 350-1000ZDB (HDB) Electric Submersible Pump



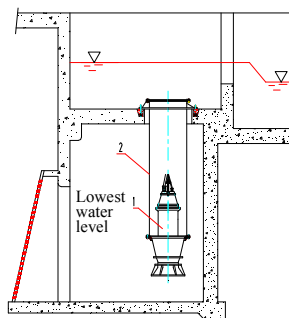
Shaft installation form
(GT)

Shaft elbow installation form
(GTW)

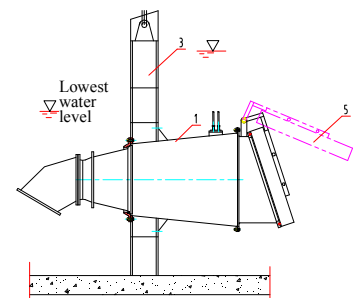
Shaft floor installation form (GD)



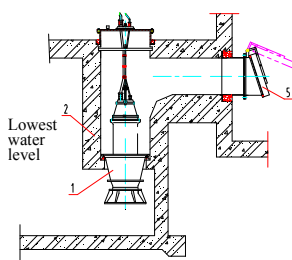
One of open installation form
(GK) (used in installation of
low-head electric pump)



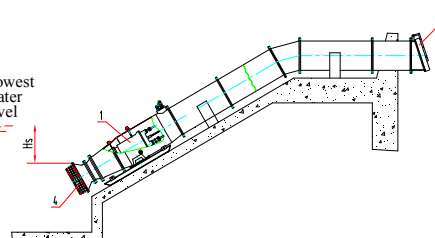
The other open installation form (GK)



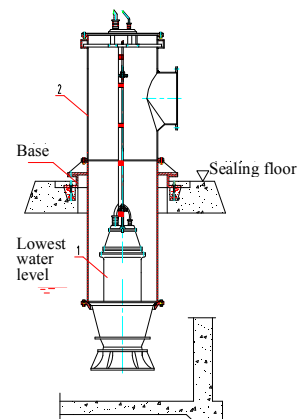
The form of installing on
gate(GZ)



Cement shaft installation
form (SGT)



Inclined installation
form (GW)

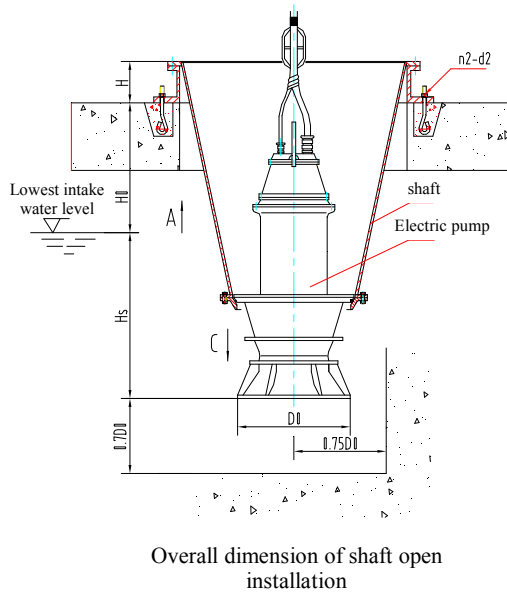
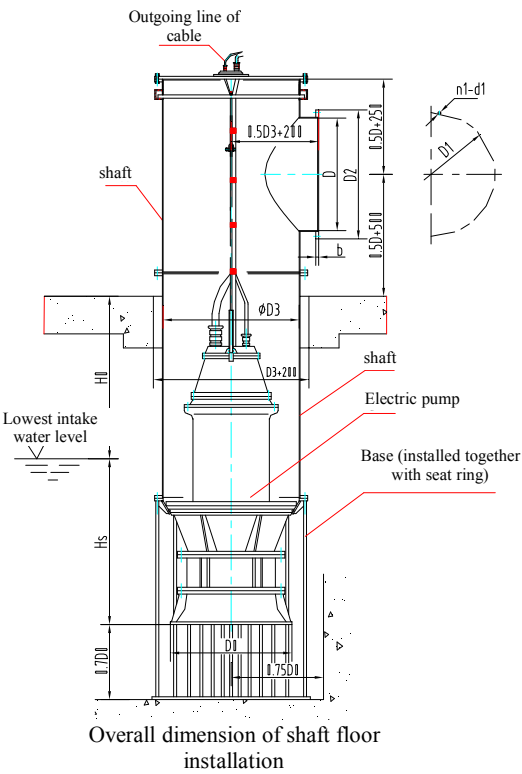
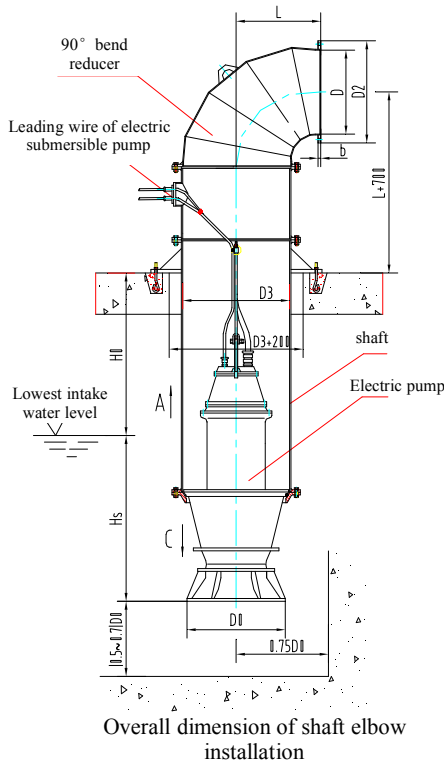
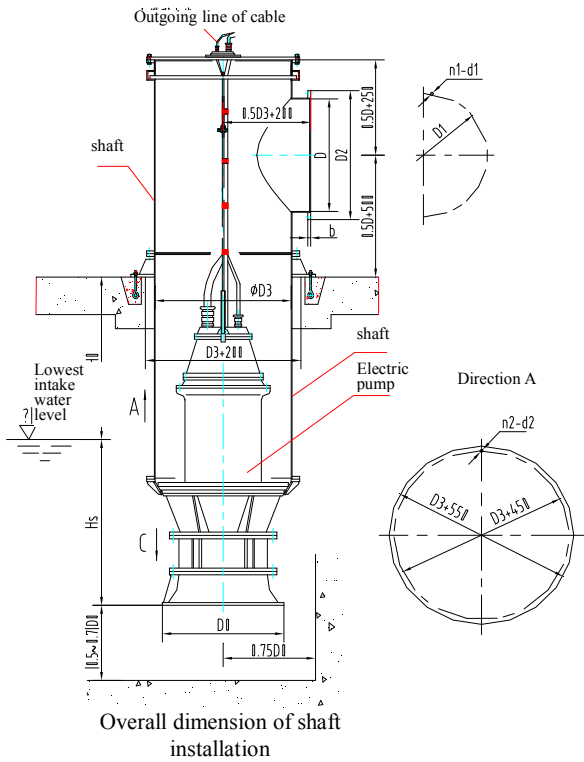


Dry installation of steel
shaft (GTG)

1. Electric submersible pump 2. Shaft 3. Gate 4. Filter screen 5. Flap valve

Note: For the first four installation forms as shown in the above figures, their overall dimension drawings and tables of installation are listed (see the attached drawings and tables). And the overall dimension of other installation forms shall be provided upon consulting.

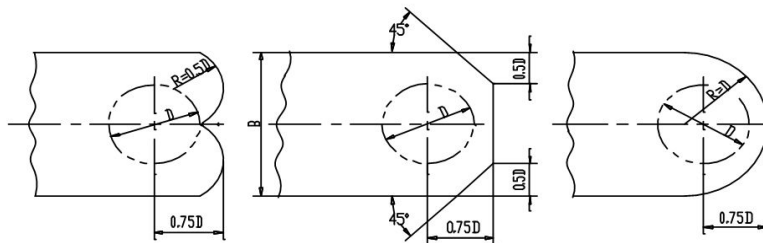
6.1.1 Installation Structure Type of 350-900 ZDB (HDB) Electric Submersible



6.1.2 Table of Installation Dimension for Steel Shaft of 350-900 ZDB (HDB) Electric Submersible Pump

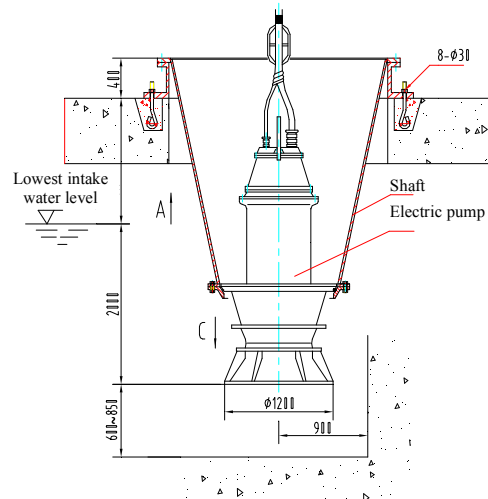
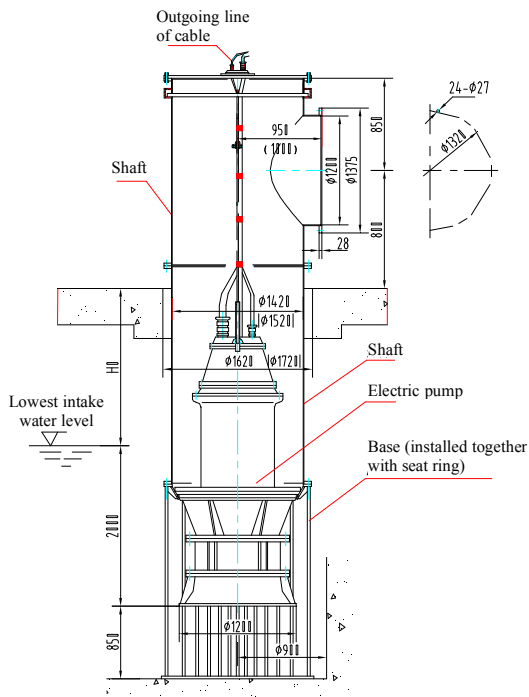
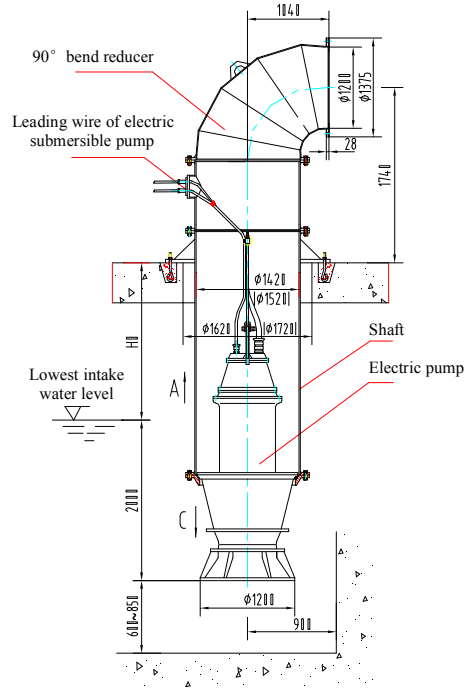
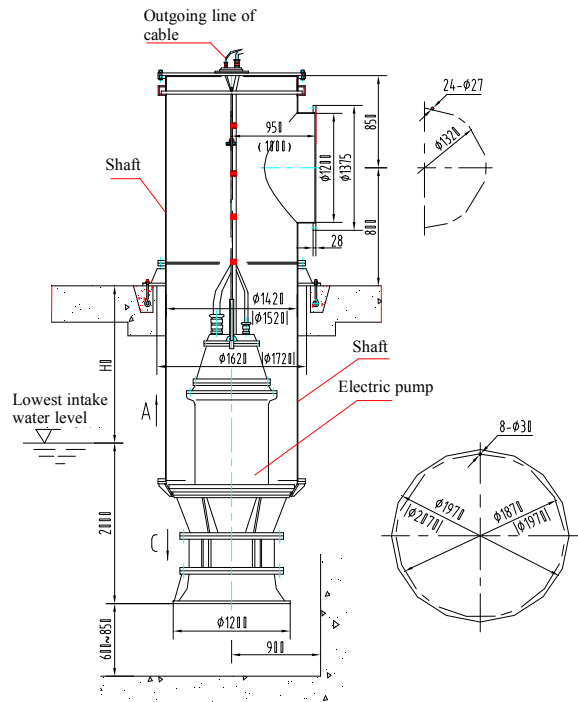
NO	Type	H _s	H ₀	D ₀	D ₃	n ₂ -d ₂	D	D1	D2	b	n ₁ -d ₁	H	L	Weight of electric pump (Kg)	Weight of shaft (kg/m)	Corresponding conventional pump type									
1	350ZDB—50	800	800	500	600	6-φ 22	400	495	540	16	12-φ 23	~400	545	420	120	350ZLB—50									
2	350ZDB—70															350ZLB—70									
3	350ZDB—70*															350ZLB—70*									
4	350ZDB—85															350ZLB—85									
5	350ZDB—100															350ZLB—100									
6	350ZDB—125															350ZLB—125									
7	350ZDB—160															350ZLB—160									
8	500ZDB—50	1000	1000	700	820	6-φ 22	600	705	755	18	20-φ 27	~400	695	850	160	500ZLB—50									
9	500ZDB—70															500ZLB—70									
10	500ZDB—70*															500ZLB—70*									
11	500ZDB—85															500ZLB—85									
12	500ZDB—100															500ZLB—100									
13	500ZDB—125															500ZLB—125									
14	500ZDB—160															500ZLB—160									
15	600ZDB—160	1100	1700	920	1020	8-φ 30	800	920	980	18	20-φ 27	~400	785	1500	200	600ZLB—160									
16	600ZDB—70*	600ZLB—70*																							
17	700ZDB—50	700ZLB—50																							
18	700ZDB—70	700ZLB—70																							
19	700ZDB—70*	700ZLB—70*																							
20	700ZDB—85	700ZLB—85																							
21	700ZDB—100	700ZLB—100																							
22	700ZDB—125	700ZLB—125																							
23	700ZDB—160	700ZLB—160																							
24	800ZDB—70*	1100	1800	1200	1200	1200	1320	1375	28	24-φ 27	~400	1040	2800	340	800ZLB—70*										
25	900ZDB—50	900ZLB—50																							
26	900ZDB—70	900ZLB—70																							
27	900ZDB—70*	900ZLB—70*																							
28	900ZDB—85	900ZLB—85																							
29	900ZDB—100	900ZLB—100																							
30	900ZDB—125	900ZLB—125																							
31	900ZDB—160	900ZLB—160																							
32	400HDB—50	800	800	500	600	6-φ 22	400	495	540	16	12-φ 23	~400	545	560	120	350HLB—50									
33	500HDB—50	1000														500HLB—50									
34	500HDB—50A	700														820	600	705	755	18	20-φ 27	785	1800	200	500HLB—50A
35	600HDB—50	830														1020	800	920	980						600HLB—50
36	600HDB—50A	920														1020	800	920	980						600HLB—50A
37	700HDB—50	920														1020	800	920	980						700HLB—50
38	700HDB—50A	920														1020	800	920	980						700HLB—50A
39	900HDB—50	1800	1072	1220	1000	1120	1175	28	920	3200	280	900HLB—50													
40	900HDB—50A	1800	1072	1220	1000	1120	1175	28	920	3200	280	900HLB—50A													
41	900HDB—40	1800	1150	1420	1200	1320	1375	28	24-φ 27	1040	6200	340													

The value of H₀ shall be determined by user and indicated in contract.

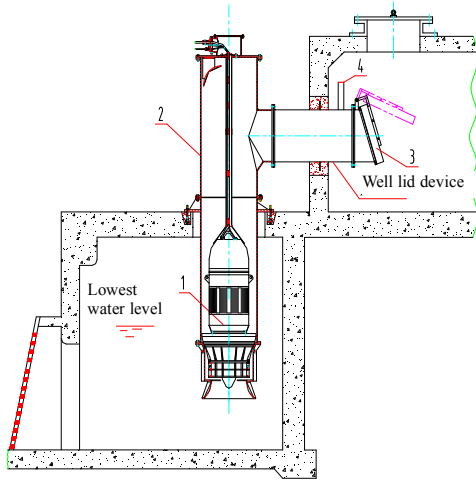


Note: $B=2\sim 2.5D0$

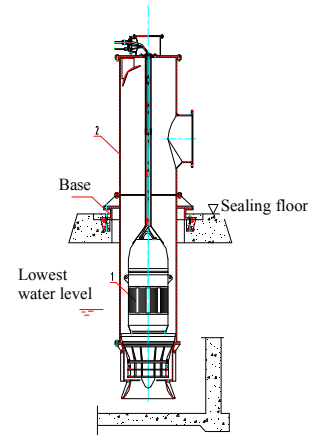
6.1.3 Table of Installation Dimension for Steel Shaft of 1000ZDB (HDB) Electric Submersible Pump



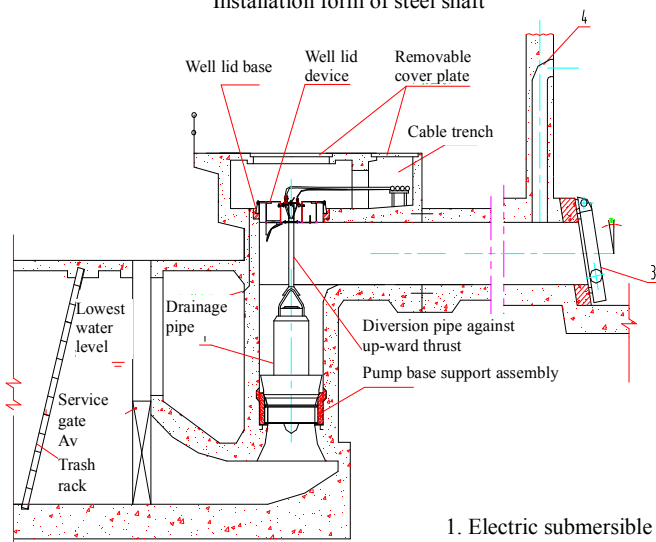
6.2 Installation Form of 1200-1600Z(H)DB Electric Submersible Pump



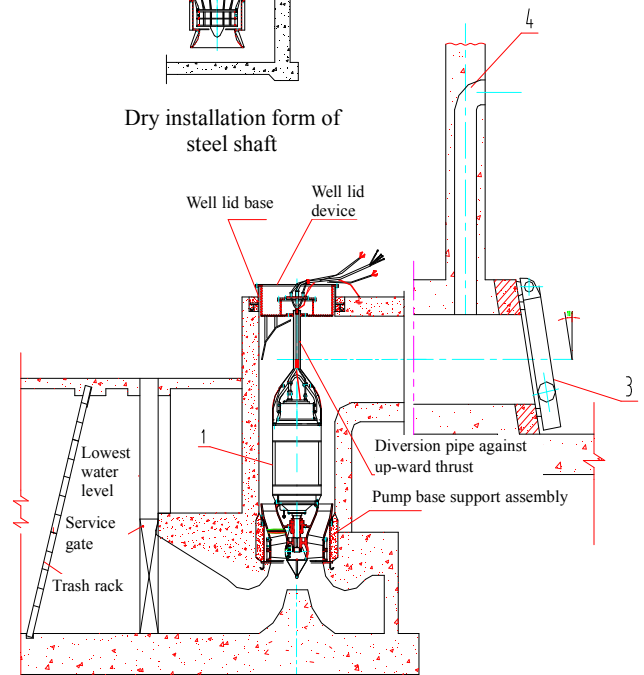
Installation form of steel shaft



Dry installation form of steel shaft



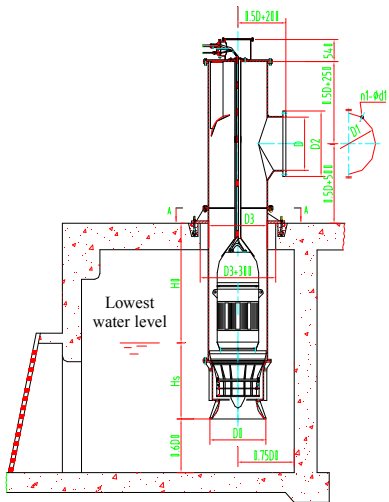
Installation form for cement shaft of dust-pan-shaped inlet conduit



Installation form for cement shaft of bell-shaped inlet conduit

1. Electric submersible pump 2. Shaft
3. Flap valve 4. Exhaust pipe

6.2.1 Table of Installation Dimension for Steel Shaft of 1200-1600Z(H)DB Electric Submersible Pump

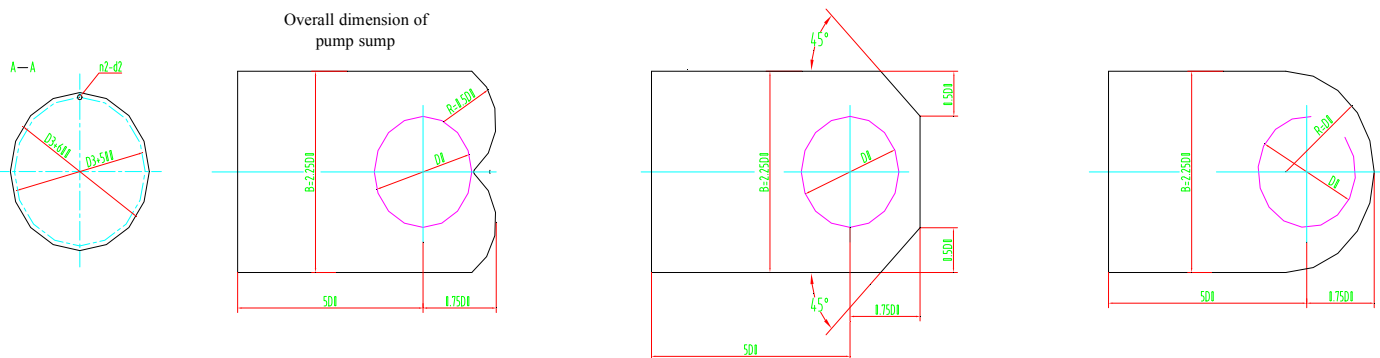


Installation Dimension Table:

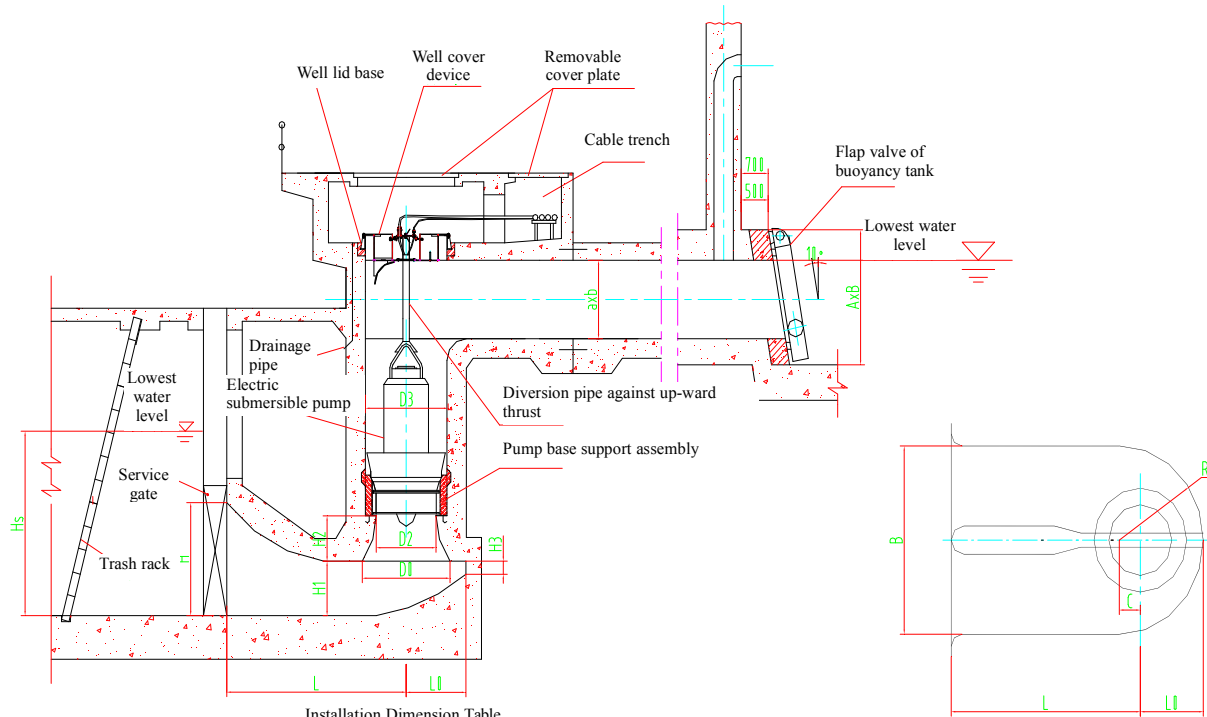
Pump model	n (r/min)	H_s	H_H	D_1	D_3	n_2-d_2	D	D_1	D_2	b	n_1-d_1	Pump weight (l)	Pump weight (Kg/m)
1200 ZDB	491	2650		1550									
	365	1700			1650		1400	1520	1575	32	36- ϕ 30	7~10	481
1200 HDB	480	2650		1600									
	365	1700			1800	8- ϕ 42	1600	1730	1785	32	44- ϕ 30	9~12	613
1400 ZDB	365	2800		1700									
	295	2100			2100		1800	1930	1985	34	44- ϕ 30	15~21	837
1400 HDB	365	2800		1900									
	295	2100			2150		1800	1930	1985	34	44- ϕ 30		837
1600 ZDB	295	3100		2100									
	245	2300					1800	1930	1985	34	44- ϕ 30		837

Note:

1. The flow velocity across the grille is not more than 0.3m/s.
2. The pump base can be adopted for the transition between well foundation flange and basic plane.
3. The center distance between two



6.2.2 Table of Installation Dimension for Cement Shaft of Dust-pan-shaped Inlet Conduit of 1200-1600Z(H)DB Electric Submersible Pump

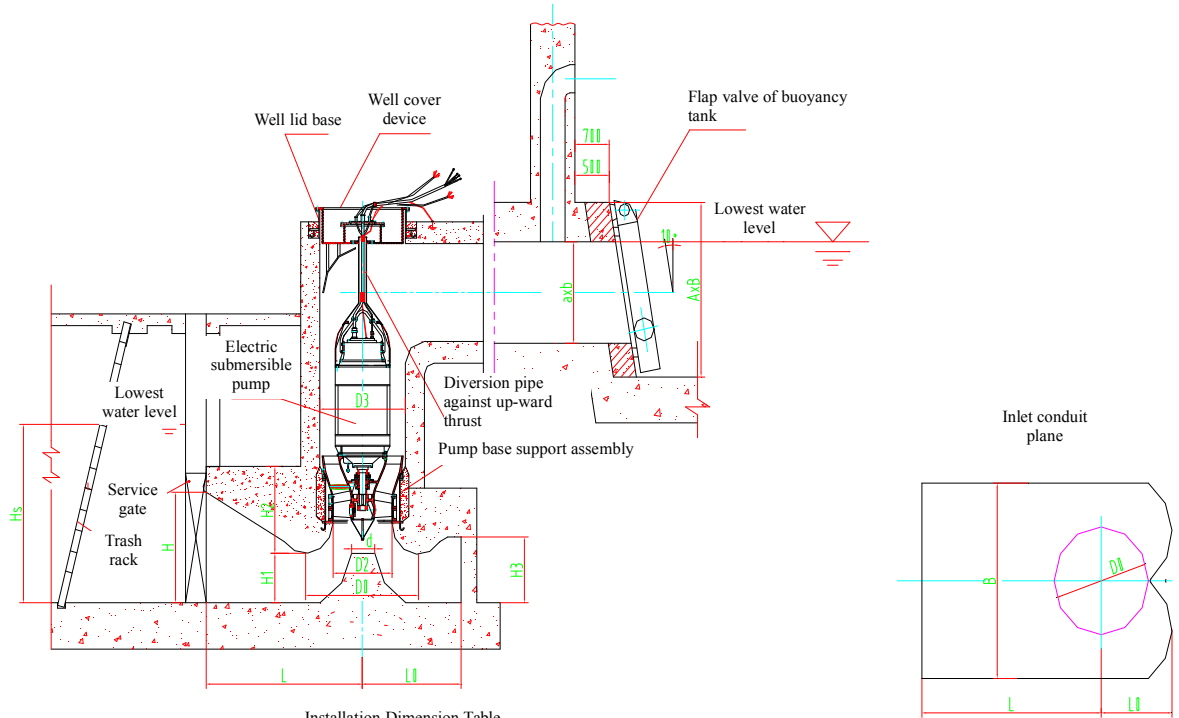


Installation Dimension Table

Pump model	n (r/min)	Hs	D3	D2	D4	H	H1	H2	H3	B	L	L0	R	C	axb	AxB
1200ZDB	490	3450	1650	1000	1467	1684	800	691	170	2661	3000	1000	1330	333	1400x1600	2800x3000
	365	2500														
1200HDB	480	3370		900	1320	1516	720	621	153	2394	2700	900	1197	300		
	365	2420														
1400ZDB	365	3760	1800	1200	1760	2121	960	828	214	3192	3600	1200	1596	400	1600x2200	3000x3600
	295	3160														
1400HDB	365	3720	2100	1150	1687	1936	920	793	196	3059	3450	1150	1530	383		
	295	3120														
1600ZDB	295	4360	2150	1540	2259	2594	1232	1063	262	4196	4620	1540	2148	513	1800x2400	3200x3800

Note:
 1. The flow velocity across the grille not more than 0.3m/s.
 2. The center distance between two pumps is B plus the thickness of pool wall.

6.2.3 Table of Installation Dimension for Cement Shaft of Bell-shaped Inlet Conduit of 1200-1600Z(H)DB Electric Submersible Pump

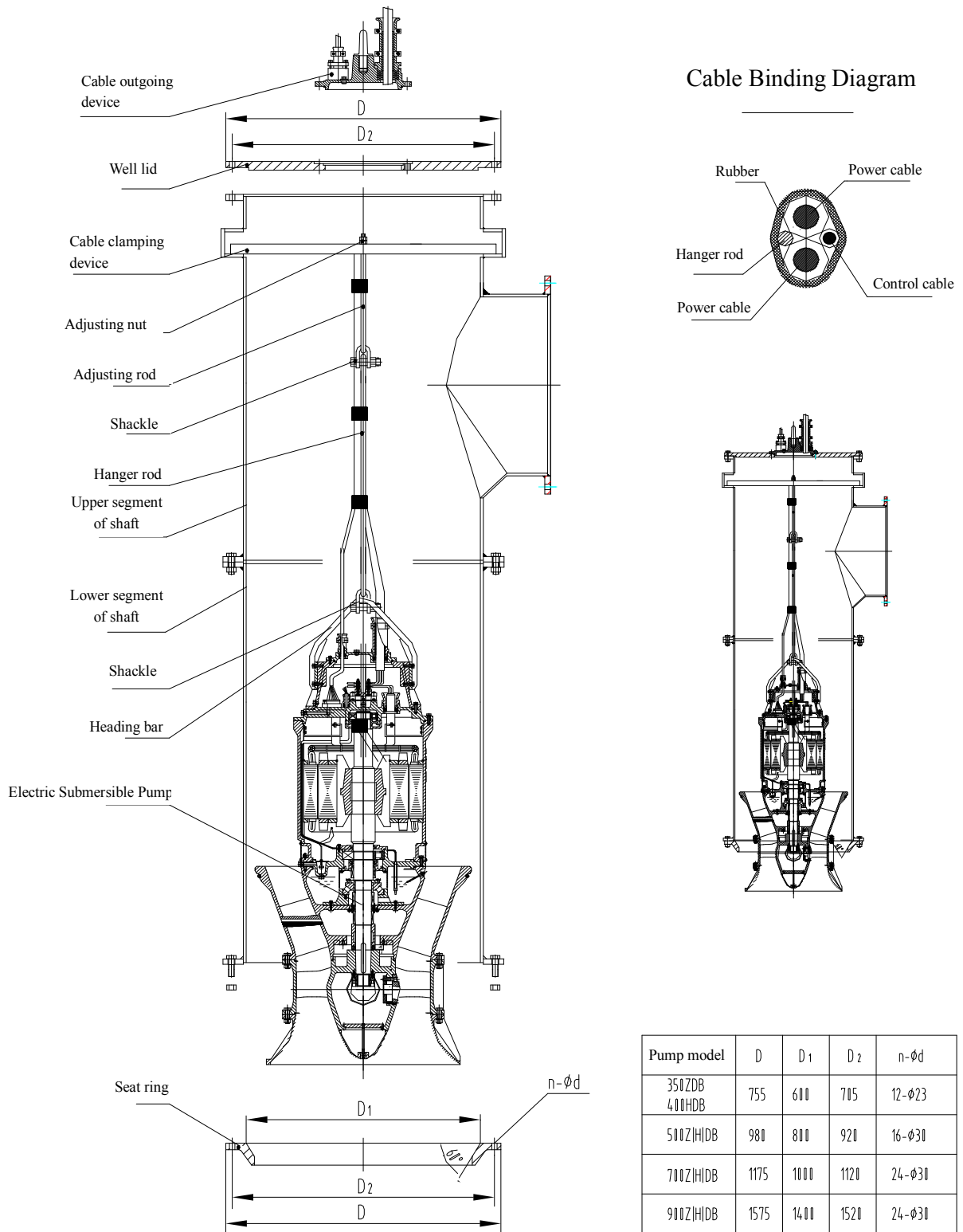


Installation Dimension Table

Pump model	n (r/min)	H_s	D_3	D_2	D_0	d	H	H_1	H_2	H_3	B	L	L_0	axb	$Ax'B$
1200ZDB	490	3450	1650	1000	1350	300	1350	438	580	760	2700	3400	1260	1400x1600	2800x3000
	365	2500													
1200HDB	480	3370	900	1250	270	1250	395	522	684	2430	3060	1135	1600x2200	3000x3600	
	365	2420													
1400ZDB	365	3760	1800	1200	1680	400	1650	540	720	940	3300	4200	1560	1600x2200	3000x3600
	295	3060													
1400HDB	365	3720	2100	1150	1610	380	1580	518	690	900	3360	4425	1495	1600x2200	3000x3600
	295	3020													
1600ZDB	295	4360	2150	1540	2200	600	2100	695	930	1200	4300	5400	2100	1800x2400	3200x3800
	245	3560													

- Note:
1. The flow velocity across the grille is not more than 0.3m/s.
 2. The center distance between two pumps is B plus the thickness of pool wall.

6.3 Parts for Shaft Installation System of 350-1000ZDB Electric Submersible Pump



When multiple pieces of cables are paid in parallel, the correction factor of current-carrying capacity is shown in the 90

7. Electric Submersible Pump Cable and Protection Controller

7.1 Power Cable

For the specification of $3 \times 70 + 1 \times 16$ and below, the flexible rubber sheathed cable shall be selected and can be used when AC 660V and lower voltage are required, and the product standard code is GB 1170-74. The allowable long-time operating temperature of conducting wire core of cable is $+65^{\circ}\text{C}$ and when the cable is laid in the air, the current-carrying capacity of cable at the temperature of 25°C is shown in the table below.

Current-carrying Capacity of Power Cable

Number of cores \times section (mm) ²	Number of pieces of conducting wire core structure / diameter of single piece (mm)	Maximum outside diameter of cable (mm)	Weight (kg/km)	Current-carrying capacity of cable ($+25^{\circ}\text{C}$) (A)
$3 \times 6 + 1 \times 6$	49/0.39+49/0.39	24.4	757	46
$3 \times 10 + 1 \times 6$	84/0.39+49/0.39	29.2	1059	64
$3 \times 16 + 1 \times 6$	84/0.49+49/0.39	32.5	1337	85
$3 \times 25 + 1 \times 10$	133/0.49+84/0.39	38.8	1946	113
$3 \times 35 + 1 \times 10$	133/0.58+84/0.39	40.3	2343	138
$3 \times 50 + 1 \times 10$	133/0.68+84/0.39	45.3	2723	173
$3 \times 70 + 1 \times 16$	189/0.68+84/0.49	51.9	4174	215

For the specification of $3 \times 70 + 1 \times 16$ and above, the heavy-duty rubber sheathed cable shall be selected, the product standard code is GB 1169-74, and when the cable is laid in the air, the current-carrying capacity of cable at the temperature of 25°C is shown in the table below.

Current-carrying Capacity of Power Cable

Number of cores \times section (mm) ²	Number of pieces of conducting wire core structure / diameter of single piece (mm)	Maximum outside diameter of cable (mm)	Weight (kg/km)	Current-carrying capacity of cable ($+25^{\circ}\text{C}$) (A)
$3 \times 16 + 1 \times 6$	84/0.49+49/0.39	28.2	1111	84
$3 \times 25 + 1 \times 10$	133/0.49+84/0.39	36.0	1737	116
$3 \times 35 + 1 \times 10$	133/0.58+84/0.39	38.6	2145	143
$3 \times 50 + 1 \times 16$	133/0.68+84/0.49	45.8	2983	177
$3 \times 70 + 1 \times 25$	189/0.68+133/0.49	51.5	4017	224
$3 \times 90 + 1 \times 35$	259/0.68+133/0.58	56.8	5147	273
$3 \times 120 + 1 \times 35$	259/0.76+133/0.58	60.0	5828	316

When the ambient temperature is greater or lower than 25°C , the current-carrying capacity of cable should be adjusted accordingly, and the current-carrying capacity in the above table should be multiplied by the correction factor as shown in the table below.

Ambient temperature (15°C)	15	20	25	30	35
Correction factor	1.12	1.06	1.0	0.94	0.87

table below:

Number of pieces Arrangement method Center distance of cable	Correction factor of current-carrying capacity		
	1	2	3
	Single piece	Center distance S of double pieces in parallel	Center distance S of three pieces in parallel
S=d	1.0	0.9	0.85
S=2d	1.0	1.0	0.98
S=3d	1.0	1.0	1.0

7.2 Control Cable

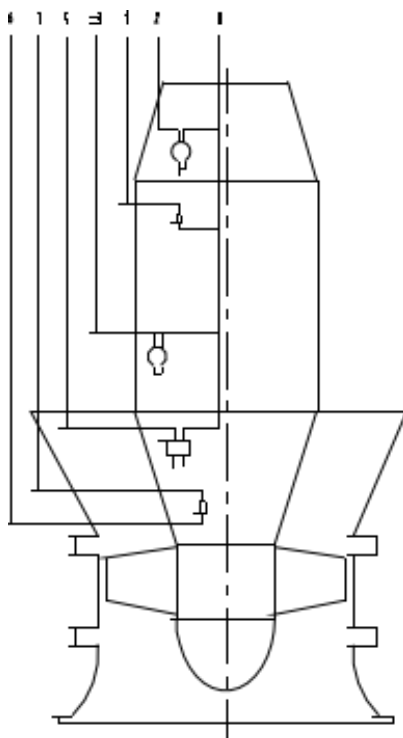
The submersible motor YQGN740 and below shall adopt $8 \times 1.5 \text{mm}^2$ flexible rubber sheathed cable as control cable and applies when the voltage is below 500V.

The submersible motor YQGN850 and above shall adopt $19 \times 1.0 \text{mm}^2$ flexible rubber sheathed cable as control cable and applies when the voltage is below 500V.

The large submersible motor YQGN850 and above shall be provided with two sets of protective devices, one in use and one for standby. When the sensor is in failure, the standby sensor can be used to distinguish the authenticity of signals.

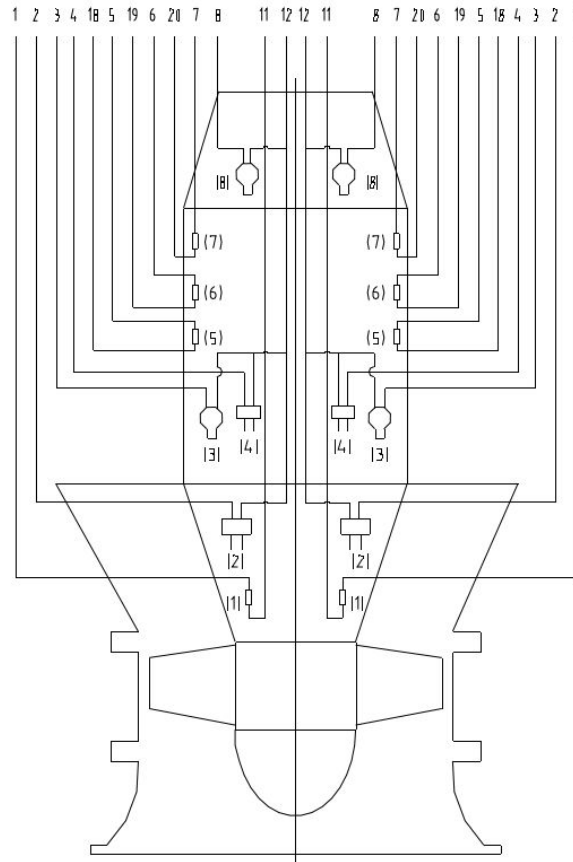
7.3 Layout Diagram of Control Points for Internal Detection of Electric Submersible Pump and the Function Table

Layout Diagram of Internal Sensor of Submersible Motor YQGN740 and Below and the Functional Table



Core number of control cable	1-8	2-8	3-8	5-8	6-7
Sensor name	Winding temperature measurement component JW6A (135°C)	Water leakage float switch in junction box (swing rod type)	Water leakage float switch in motor (swing rod type)	Water leakage electrode in oil chamber	Bearing temperature sensor ADM590 < 80kΩ in forward direction
Resistance value in normal state	0	OFF ∞	OFF ∞	≥33kΩ	≈∞ in reverse direction
Function	The stator coil over-temperature protection temperature is higher than 135°C, and after the sensor operates, the resistance will be greater than or equal to 4kΩ	When the junction box leaks, the float switch state will switch and the resistance R is approximately equal to 0.	In case of leakage in motor cavity, the float switch state will switch and the resistance R is approximately equal to 0.	When water enters oil and reaches 10%, the resistance of oil and water mixed liquor will be less than 33kΩ.	The manifold block temperature measurement component ADM-590 sends out the directly proportional milliamper-level electric quantity signal.

Layout Diagram of Internal Sensor of Submersible Motor YQGN850 and Above and the Functional Table



Layout Diagram of Internal Sensor

Monitoring and Protection Transmitter (one in user and one for standby)

Transmitter No.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Cable grade	1.11	1.12	3.12	4.12	5.18	6.19	7.20	8.12
Transmitter	Pt100 temperature sensor	Electrode	Float switch	Electrode	Pt100 temperature sensor	Pt100 temperature sensor	Pt100 temperature sensor	Float switch
Function	Monitor the temperature of thrust bearing	Monitor the humidity in oil chamber	Protect and prevent water from entering the motor	Monitor the humidity in motor	Monitor and protect Phase-A temperature	Monitor and protect Phase-B temperature	Monitor and protect Phase-C temperature	Alarm for water entering in junction box
Resistance value in normal state	$\approx 100\Omega$ at 0°C	$>33\text{K}\Omega$	∞	$>33\text{K}\Omega$	$\approx 100\Omega$ at 0°C	$\approx 100\Omega$ at 0°C	$\approx 100\Omega$ at 0°C	∞
Resistance value in failure state	$\approx 136\Omega$ at 95°C	Relative humidity $\geq 95\%$ $\leq 33\text{K}\Omega$	0	Relative humidity $\geq 95\%$ $\leq 33\text{K}\Omega$	$\approx 151\Omega$ at 135°C	$\approx 151\Omega$ at 135°C	$\approx 151\Omega$ at 135°C	0

7.4 HD Series Electric Submersible Pump Protection Controller

Correspondence Table of Dry Motor Sensor and HD Series Controller

Small and medium size	Submersible motor model	Configuration of sensor					Monitoring of insulation resistance	Supporting controller
		Water entering motor	Water entering oil chamber	Water entering junction box	Winding temperature	Bearing temperature		
Small and medium size	268	Electrode		Electrode	JW6A-135°C		Optional	HD-100L
	368	Electrode	Electrode	Electrode	JW6A-135°C	Pt100	Optional	
	520							
740								
Large size	850 990 1180	Electrode	Electrode	Electrode	PT100 (three)	PT100 (three)	Optional (HDGJK-II)	HD-200GB

8. Supply Scope of Complete Set

(1) 350-900ZDB (HDB)

No.	Name	Installation form								Remarks
		Shaft type	Floor shaft type	Elbow shaft type	Suspension type	Sled type	Rail type	Open type	Cement shaft type	
1	Axial and mixed flow electric submersible pump	★	★	★	★	★	★	★	★	Indicate the pump type, flow, head, voltage, installation form, etc. at the time of ordering.
2	Seat ring	★	★	★				★	★	HT200 or Q235-A
3	Air guide sleeve	☆	☆	☆						Q235-A or 1Cr18Ni9Ti, determined by user
4	Steel shaft	★	★	★						
5	Suction hood				★	★	★			
6	Diffusion pipe							★		
7	Through-wall pipe	★	★	★	★	★	★	★		
8	Drainage pipe	☆	☆	☆	☆	☆	☆	☆		
9	Elbow				★	★	★			
10	Bend reducer			★						
11	Well lid	★	★	★					★	
12	Suspension apparatus	★	★	★				★	★	
13	Cable clamping device	★	★	★				★	★	
14	Pump base	☆	☆	☆	☆					HT200 or Q235-A
15	Cable outgoing device	★	★	★	★	★	★	★	★	
16	Sled assembly					★				
17	Pump truck assembly						★			
18	Hatch cover	☆	☆	☆	☆	☆	☆	☆	☆	HT200 or Q235-A
19	Sealing gasket	★	★	★	★	★	★	★	★	
20	Standard fastener	★	★	★	★	★	★	★	★	Made of ordinary steel or stainless steel
21	Foundation bolt	★	★	★	★			★	☆	
22	Flap valve	☆	☆	☆	☆	☆	☆	☆	☆	Cast iron flap valve or buoyancy tank
23	Flexible rubber joint			☆	☆					
24	Special starting cabinet	☆	☆	☆	☆	☆	☆	☆	☆	
25	Special protector	★	★	★	★	★	★	★	★	
26	Local junction box	☆	☆	☆	☆	☆	☆	☆	☆	
27	Power cable	☆	☆	☆	☆	☆	☆	☆	☆	The accompanying cable is 12m long, or indicate the length at the time of ordering.
28	Control cable	☆	☆	☆	☆	☆	☆	☆	☆	
29	Water level controller	☆	☆	☆	☆	☆	☆	☆	☆	
30	Mechanical seal	☆	☆	☆	☆	☆	☆	☆	☆	Indicate the quantity of spare parts at the time of ordering
31	“O” seal ring	☆	☆	☆	☆	☆	☆	☆	☆	
32	Bearing	☆	☆	☆	☆	☆	☆	☆	☆	
33	Skeleton seal	☆	☆	☆	☆	☆	☆	☆	☆	
34	Special tool	☆	☆	☆	☆	☆	☆	☆	☆	

(1) 350-900ZDB (HDB)

No.	Name	Installation form								Remarks
		Shaft type	Floor shaft type	Elbow shaft type	Suspension type	Sled type	Rail type	Open type	Cement shaft type	
1	Axial and mixed flow electric submersible pump	★	★	★	★	★	★	★	★	Indicate the pump type, flow, head, voltage, installation form, etc. at the time of ordering.
2	Embedded base plate									Q235-A
3	Pump base support assembly								★	HT200+ or Q235-A
4	Well lid base								★	Q235-A
5	Well lid device								★	
6	Diversion pipe against up-ward thrust								☆	Q235-A
7	Seat ring	★	★	★				★	★	HT200 or Q235-A
8	Air guide sleeve	☆	☆	☆						Q235-A or 1Cr18Ni9Ti, determined by user
9	Steel shaft	★	★	★						
10	Suction hood				★	★	★			
11	Diffusion pipe							★		
12	Through-wall pipe	★	★	★	★	★	★	★		
13	Drainage pipe	☆	☆	☆	☆	☆	☆	☆		
14	Elbow				★	★	★			
15	Bend reducer			★						
16	Well lid	★	★						★	
17	Suspension apparatus	★	★	★				★	★	
18	Cable clamping device	★	★	★				★	★	
19	Pump base	☆	☆	☆	☆					HT200 or Q235-A
20	Cable outgoing device	★	★	★	★	★	★	★	★	
21	Sled assembly					★				
22	Pump truck assembly						★			
23	Hatch cover	☆	☆	☆	☆	☆	☆	☆	☆	HT200 or Q235-A
24	Sealing gasket	★	★	★	★	★	★	★	★	
25	Standard fastener	★	★	★	★	★	★	★	★	Made of ordinary steel or stainless steel
26	Foundation bolt	★	★	★	★			★	☆	
27	Flap valve	☆	☆	☆	☆	☆	☆	☆	☆	Cast iron flap valve or buoyancy tank
28	Flexible rubber joint			☆	☆					
29	Special starting cabinet	☆	☆	☆	☆	☆	☆	☆	☆	
30	Special protector	★	★	★	★	★	★	★	★	
31	Local junction box	☆	☆	☆	☆	☆	☆	☆	☆	
32	Power cable	☆	☆	☆	☆	☆	☆	☆	☆	The accompanying cable is 12m long, or indicate the length at the time of ordering.
33	Control cable	☆	☆	☆	☆	☆	☆	☆	☆	
34	Water level controller	☆	☆	☆	☆	☆	☆	☆	☆	
35	Mechanical seal	☆	☆	☆	☆	☆	☆	☆	☆	Indicate the quantity of spare parts at the time of ordering
36	“O” seal ring	☆	☆	☆	☆	☆	☆	☆	☆	
37	Bearing	☆	☆	☆	☆	☆	☆	☆	☆	
38	Skeleton seal	☆	☆	☆	☆	☆	☆	☆	☆	
39	Special tool	☆	☆	☆	☆	☆	☆	☆	☆	

Note: ★ means compulsory part which is required by such kind of installation form;

☆ Means optional part, and the user shall decide if to purchase it and the quantity.

9. Ordering Instructions

1) In ordering, indicate the name, model and specification of electric submersible pump, as well as the number of units, installation form, range of complete set, starting method, head, flow, power, voltage, water quality condition, and material of main parts, note that the selected head is the total head including total head loss of pump unit, and if the estimation of total head is not accurate, indicate the net head and installation form to consult the Company about the accurate head, and confirm the model and specification of electric submersible pump.

2) The maximum head and minimum head of pump should refer to the performance curve and performance table of this sample. The parameters of supporting motor, etc. in the sample are for reference only, and the actual working condition parameters of the pump station will prevail. If the pump parameters exceed the specified range, please consult the Company.

3) When selecting the installation form, the sample size is preferred for the steel shaft installation. To change the size in the table or select the installation dimension of other installation form, please consult the Company.

4) When ordering, pay attention to the complete set range as listed in this sample. The compulsory parts should be preferred and the optional parts are recommended.

5) The starting method may be direct starting, self-coupling voltage-reduced starting and soft starting. The Company can provide various starting cabinets, control cabinets and pump station integrated automation control systems which are equipped with HD protection controller and HD static insulation resistance monitor for electric submersible pump.

6) It's indicated in contract that 50Hz order requirement is accepted. The special products of other frequency (e.g. 60Hz) can be negotiated in ordering.

Note:

The electronic product selection manual can be downloaded at the company website: <http://www.hdjhpu.cn>, or be demanded through letter.

