

SUBMERSIBLE PUMP PERFORMANCE CHART

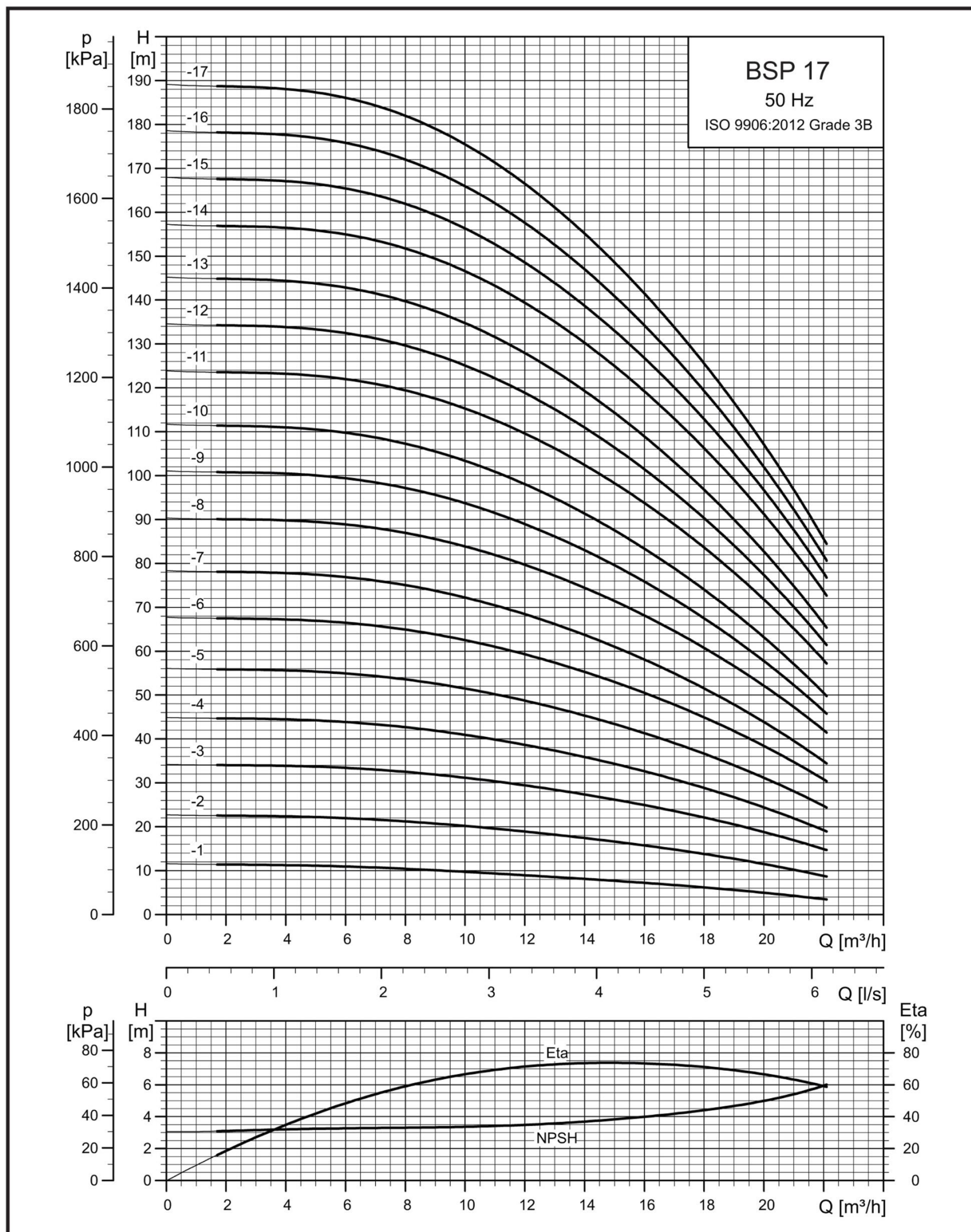
BORANA PUMPS PERFORMANCE CHART													
BSP-10		DISCHARGE (Q)											
		m ³ /h											
		1/min.	0	2	4	6	8	10	12	14	16	18	
MODEL	CONNECTION	MOTOR	RATING	TOTAL HEAD IN (m)									
		[kW]	[HP]										
BSP 10-01		0.55	0.75	10	10	10	10	9	8	8	6	5	4
BSP 10-02		1.1	1.5	21	20	20	20	18	17	15	13	11	8
BSP-10-03		1.5	2	31	29	29	29	27	25	23	19	16	12
BSP 10-04		2.2	3	42	39	39	39	36	33	30	25	21	16
BSP 10-05		2.2	3	52	49	49	49	46	42	38	32	27	20
BSP 10-06		3	4	62	59	59	59	55	50	45	38	32	24
BSP 10-07		3	4	73	68	68	68	64	59	53	44	37	28
BSP 10-08		3.7	5	83	78	78	78	73	67	61	51	43	32
BSP 10-09		4	5.5	94	88	88	88	82	75	68	57	48	36
BSP 10-10		5.5	7.5	104	98	98	98	91	84	76	63	53	40
BSP 10-11		5.5	7.5	114	107	107	107	100	92	83	70	59	44
BSP 10-12		5.5	7.5	125	117	117	117	109	100	91	76	64	48
BSP 10-13		5.5	7.5	135	127	127	127	118	109	98	82	69	52
BSP 10-14		7.5	10	146	137	137	137	128	117	106	89	75	56
BSP 10-15		7.5	10	156	147	147	147	137	125	114	95	80	60
BSP 10-16		7.5	10	166	156	156	156	146	134	121	101	85	64
BSP 10-17		7.5	10	177	166	166	166	155	142	129	108	91	68
BSP 10-18		7.5	10	187	176	176	176	164	150	136	114	96	72
BSP 10-19		9.3	12.5	198	186	186	186	173	159	144	120	101	76
BSP 10-20		9.3	12.5	208	195	195	195	182	167	151	127	107	80
BSP 10-21		9.3	12.5	218	205	205	205	191	176	159	133	112	84
BSP 10-22	Rp2½"	9.3	12.5	229	215	215	215	200	184	167	139	117	88
BSP 10-23		11	15	239	225	225	225	210	192	174	146	123	92
BSP 10-24		11	15	250	234	234	234	219	201	182	152	128	96
BSP 10-25		11	15	260	244	244	244	228	209	189	159	134	100
BSP 10-26		11	15	270	254	254	254	237	217	197	165	139	104
BSP 10-27		13	17.5	281	264	264	264	246	226	204	171	144	108
BSP 10-28		13	17.5	291	274	274	274	255	234	212	178	150	112
BSP 10-29		13	17.5	302	283	283	283	264	242	220	184	155	116
BSP 10-30		13	17.5	312	293	293	293	273	251	227	190	160	120
BSP 10-31		13	17.5	322	303	303	303	282	259	235	197	166	124
BSP 10-32		15	20	333	313	313	313	292	268	242	203	171	128
BSP 10-33		15	20	343	322	322	322	301	276	250	209	176	132
BSP 10-34		15	20	354	332	332	332	310	284	257	216	182	136
BSP 10-35		15	20	364	342	342	342	319	293	265	222	187	140
BSP 10-36		15	20	374	352	352	352	328	301	273	228	192	144
BSP 10-37		18.5	25	385	361	361	361	337	309	280	235	198	148
BSP 10-38		18.5	25	395	371	371	371	346	318	288	241	203	152
BSP 10-39		18.5	25	406	381	381	381	355	326	295	247	208	156
BSP 10-40		18.5	25	416	391	391	391	364	334	303	254	214	160
BSP 10-41		18.5	25	426	401	401	401	374	343	310	260	219	164
BSP 10-42		18.5	25	437	410	410	410	383	351	318	266	224	168
BSP 10-43		18.5	25	447	420	420	420	392	359	326	273	230	172
BSP 10-44		18.5	25	458	430	430	430	401	368	333	279	235	176

SUBMERSIBLE PUMP PERFORMANCE CHART

BORANA PUMPS PERFORMANCE CHART														
BSP-17			DISCHARGE (Q)											
			m3/h	0	2	4	6	8	10	12	14	16	18	20
			l/min.	0	33.3	66.7	100	133.3	166.7	200	233.3	266.7	300	333.3
MODEL	MOTOR RATING		TOTAL HEAD IN (m)											
	[kW]	[HP]												
BSP 17-01	0.55	0.75	12	11	11	11	10	10	9	8	7	6	5	4
BSP 17-02	1.1	1.5	23	23	22	22	21	20	19	17	16	14	12	9
BSP 17-03	2.2	3	34	34	34	33	33	31	29	27	25	22	19	15
BSP 17-04	2.2	3	45	45	44	44	43	41	39	36	33	29	24	19
BSP 17-05	3	4	56	56	56	55	54	51	49	45	41	37	31	25
BSP 17-06	4	5.5	68	67	67	66	65	63	59	55	50	45	38	31
BSP 17-07	4	5.5	78	78	78	77	75	72	68	64	58	52	44	35
BSP 17-08	5.5	7.5	90	90	90	89	87	84	80	74	68	61	52	42
BSP 17-09	5.5	7.5	101	101	100	99	97	94	89	83	76	67	58	46
BSP 17-10	5.5	7.5	112	111	111	110	107	103	98	91	83	74	63	50
BSP 17-11	7.5	10	124	124	123	122	119	115	110	102	94	84	72	58
BSP 17-12	7.5	10	135	134	134	132	130	125	119	111	101	90	77	62
BSP 17-13	7.5	10	145	145	144	143	140	135	128	119	109	97	83	66
BSP 17-14	9.3	12.5	157	157	156	155	152	147	139	130	119	106	91	74
BSP 17-15	9.3	12.5	168	168	167	165	162	156	149	139	127	113	97	78
BSP 17-16	9.3	12.5	179	178	178	176	172	166	158	147	134	119	102	82
BSP 17-17	9.3	12.5	189	189	188	186	182	175	166	155	141	126	107	86
BSP 17-18	11	15	202	201	200	199	194	188	178	167	152	136	116	94
BSP 17-19	11	15	212	212	211	209	204	197	187	175	160	142	121	97
BSP 17-20	11	15	223	222	221	219	214	207	196	183	167	148	126	101
BSP 17-21	13	17.5	235	235	234	232	227	220	209	195	179	159	137	110
BSP 17-22	13	17.5	246	246	245	243	237	229	218	204	186	166	142	114
BSP 17-23	13	17.5	257	256	255	253	248	239	227	212	193	172	147	118
BSP 17-24	13	17.5	267	267	266	263	258	248	236	220	201	178	152	122
BSP 17-25	15	20	280	279	279	276	270	261	248	232	212	189	162	131
BSP 17-26	15	20	291	290	289	286	280	271	257	240	220	196	168	135
BSP 17-27	15	20	301	300	300	297	290	280	266	249	227	202	173	139
BSP 17-28	18.5	25	315	314	314	311	305	295	281	263	241	215	186	151
BSP 17-29	18.5	25	326	325	324	321	315	305	290	272	249	222	191	155
BSP 17-30	18.5	25	336	336	335	332	325	315	299	280	257	229	197	159
BSP 17-31	18.5	25	347	346	346	342	336	324	309	289	264	236	202	163
BSP 17-32	18.5	25	358	357	356	353	346	334	318	297	272	242	208	168
BSP 17-33	18.5	25	368	368	367	363	356	344	327	305	279	249	213	172
BSP 17-34	22	30	382	381	380	377	369	357	340	318	291	260	223	181
BSP 17-35	22	30	392	392	391	387	380	367	349	326	299	266	229	185
BSP 17-36	22	30	403	402	401	398	390	377	358	335	306	273	234	189
BSP 17-37	22	30	414	413	412	408	400	386	367	343	314	279	240	193
BSP 17-38	22	30	425	424	423	418	410	396	376	351	321	286	245	197
BSP 17-39	22	30	435	434	433	429	420	405	385	360	328	292	250	201
BSP 17-40	22	30	446	445	444	439	430	415	394	368	336	298	255	205
BSP 17-43	26	35	481	481	479	475	466	450	428	400	366	326	280	227
BSP 17-45	26	35	503	502	501	496	486	469	446	417	381	339	291	235
BSP 17-48	26	35	535	534	532	527	516	498	473	441	403	358	306	246

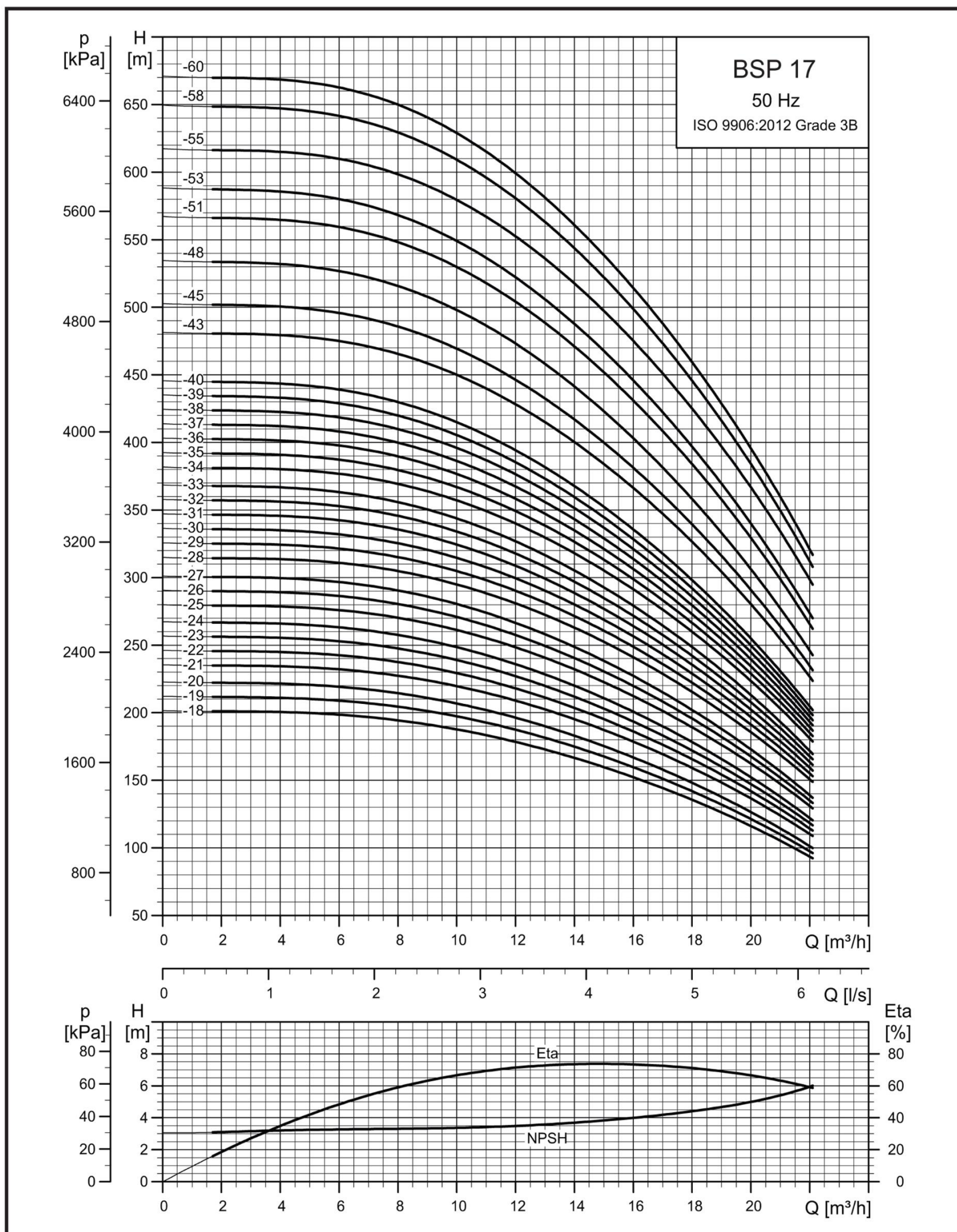
SUBMERSIBLE PUMP PERFORMANCE CURVE

3.7 BSP 17 - Performance curve



SUBMERSIBLE PUMP PERFORMANCE CURVE

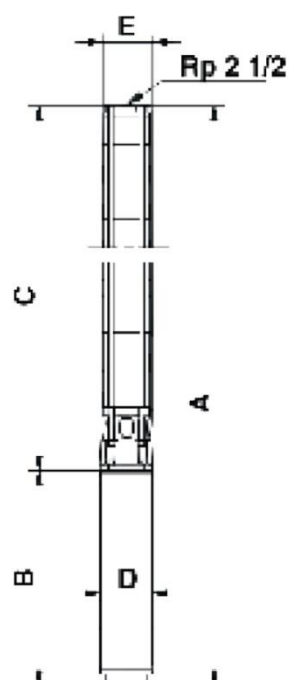
BSP 17 - Performance Curve



SUBMERSIBLE PUMP TECHNICAL DATA

BSP 17 - Technical Data

Dimensions and Weights



BSP17-43 to BSP17-60 are mounted in sleeve for R 3 connection.

The pump types above are also available in N- and R-versions. See page no.3

Pumps mounted in sleeve are only available in standard and N-versions.

Other types of connection are possible by means of connecting pieces.

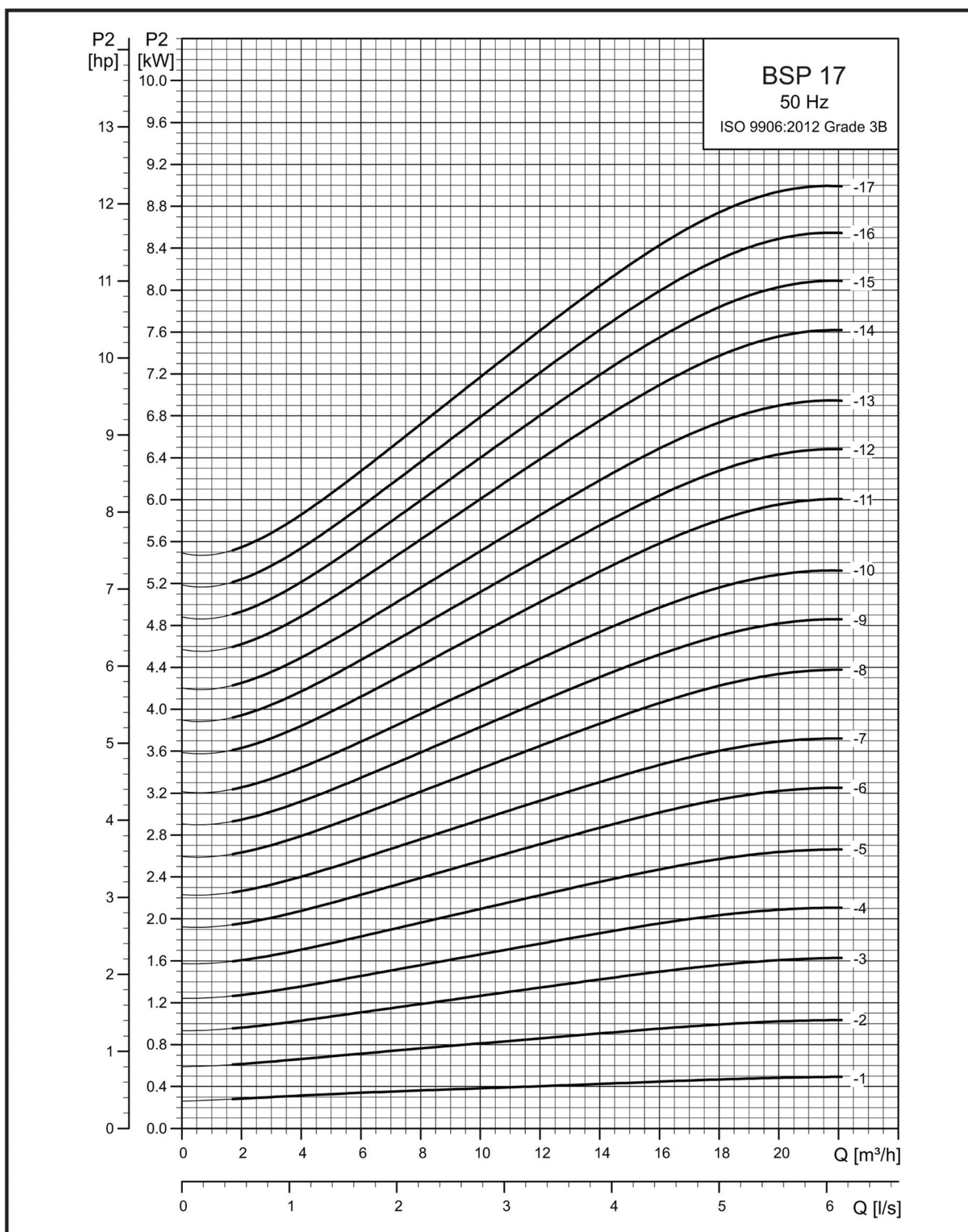
*Maximum diameter of pump with one motor cable.

** Maximum diameter of pump with two motor cables.

Pump type	Motor		Dimensions [mm]						Net weight [kg]
	Type	Power [kW]	C	B	A	D	E*	E**	
Single-phase, 1 x 230 V									
BSP 17-1	BM 4	2.2	341	577	918	95	134		26
BSP 17-2	BM 4	2.2	402	577	979	95	134		27
BSP 17-3	BM 4	2.2	462	577	1039	95	134		28
BSP 17-4	BM 4	2.2	523	577	1100	95	134		30
Three-phase, 3 x 230 V / 3 x 400 V									
BSP 17-1	BM 4	0.75	341	402	743	95	134		18
BSP 17-2	BM 4	1.1	402	417	819	95	134		20
BSP 17-3	BM 4	2.2	462	457	919	95	134		23
BSP 17-4	BM 4	2.2	523	457	980	95	134		25
BSP 17-5	BM 4	3	583	497	1080	95	134		27
BSP 17-6	BM 4	4	644	577	1221	95	134		32
BSP 17-7	BM 4	4	704	577	1281	95	134		34
BSP 17-8	BM 4	5.5	765	677	1442	95	134		40
BSP 17-9	BM 4	5.5	825	677	1502	95	134		42
BSP 17-10	BM 4	5.5	886	677	1563	95	134		43
BSP 17-11	BM 4	7.5	946	777	1723	95	134		50
BSP 17-12	BM 4	7.5	1007	777	1784	95	134		51
BSP 17-13	BM 4	7.5	1067	777	1844	95	134		53
BSP 17-8	BSF 6	5.5	765	544	1309	143	142	144	49
BSP 17-9	BSF 6	5.5	825	544	1369	143	142	144	50
BSP 17-10	BSF 6	5.5	886	544	1430	143	142	144	52
BSP 17-11	BSF 6	7.5	946	574	1520	143	142	144	56
BSP 17-12	BSF 6	7.5	1007	574	1581	143	142	144	58
BSP 17-13	BSF 6	7.5	1067	574	1641	143	142	144	59
BSP 17-14	BSF 6	9.2	1128	604	1732	143	142	144	66
BSP 17-15	BSF 6	9.2	1188	604	1792	143	142	144	67
BSP 17-16	BSF 6	9.2	1249	604	1853	143	142	144	69
BSP 17-17	BSF 6	9.2	1309	634	1943	143	142	144	70
BSP 17-18	BSF 6	11	1370	634	2004	143	142	144	75
BSP 17-19	BSF 6	11	1430	634	2064	143	142	144	76
BSP 17-20	BSF 6	11	1491	664	2155	143	142	144	77
BSP 17-21	BSF 6	13	1551	664	2215	143	142	144	82
BSP 17-22	BSF 6	13	1612	664	2276	143	142	144	83
BSP 17-23	BSF 6	13	1672	664	2336	143	142	144	84
BSP 17-24	BSF 6	13	1733	699	2432	143	142	144	86
BSP 17-25	BSF 6	15	1793	699	2492	143	142	144	91
BSP 17-26	BSF 6	15	1854	699	2553	143	142	144	92
BSP 17-27	BSF 6	18.5	1914	754	2668	143	142	144	94
BSP 17-28	BSF 6	18.5	1975	754	2729	143	142	144	101
BSP 17-29	BSF 6	18.5	2035	754	2789	143	142	144	102
BSP 17-30	BSF 6	18.5	2096	754	2850	143	142	144	103
BSP 17-31	BSF 6	18.5	2156	754	2910	143	142	144	105
BSP 17-32	BSF 6	18.5	2217	754	2971	143	142	144	106
BSP 17-33	BSF 6	18.5	2277	754	3031	143	142	144	108
BSP 17-34	BSF 6	22	2338	814	3152	143	142	144	115
BSP 17-35	BSF 6	22	2398	814	3212	143	142	144	116
BSP 17-36	BSF 6	22	2459	814	3273	143	142	144	118
BSP 17-37	BSF 6	22	2519	814	3333	143	142	144	119
BSP 17-38	BSF 6	22	2580	814	3394	143	142	144	120
BSP 17-39	BSF 6	22	2640	814	3454	143	142	144	122
BSP 17-40	BSF 6	22	2701	814	3515	143	142	144	123
BSP 17-43	BSF 6	26	2882	874	3756	143	175	181	164
BSP 17-45	BSF 6	26	3003	874	3877	143	175	181	167
BSP 17-48	BSF 6	26	3185	874	4129	143	175	181	173
BSP 17-51	BSF 6	30	3366	944	4310	143	175	181	186
BSP 17-53	BSF 6	30	3487	944	4799	143	175	181	189
BSP 17-55	BSF 6	37	3608	1312	4920	144	175	181	234
BSP 17-58	BSF 6	37	3790	1312	5102	144	175	181	140
BSP 17-60	BSF 6	37	3911	1312	3911	144	175	181	243

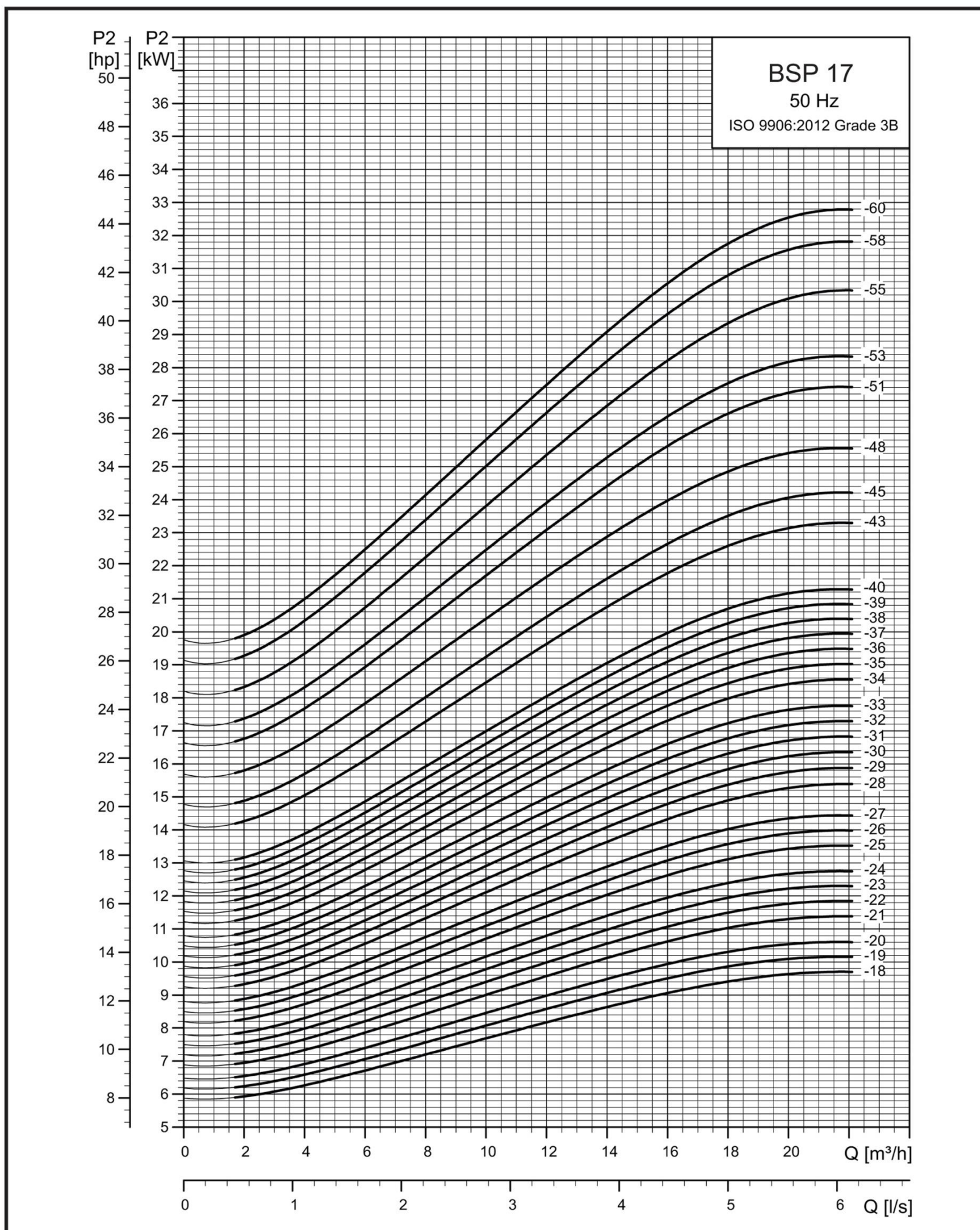
SUBMERSIBLE PUMP POWER CURVE

BSP 17 - Power Curve



SUBMERSIBLE PUMP POWER CURVE

BSP 17 - Power Curve

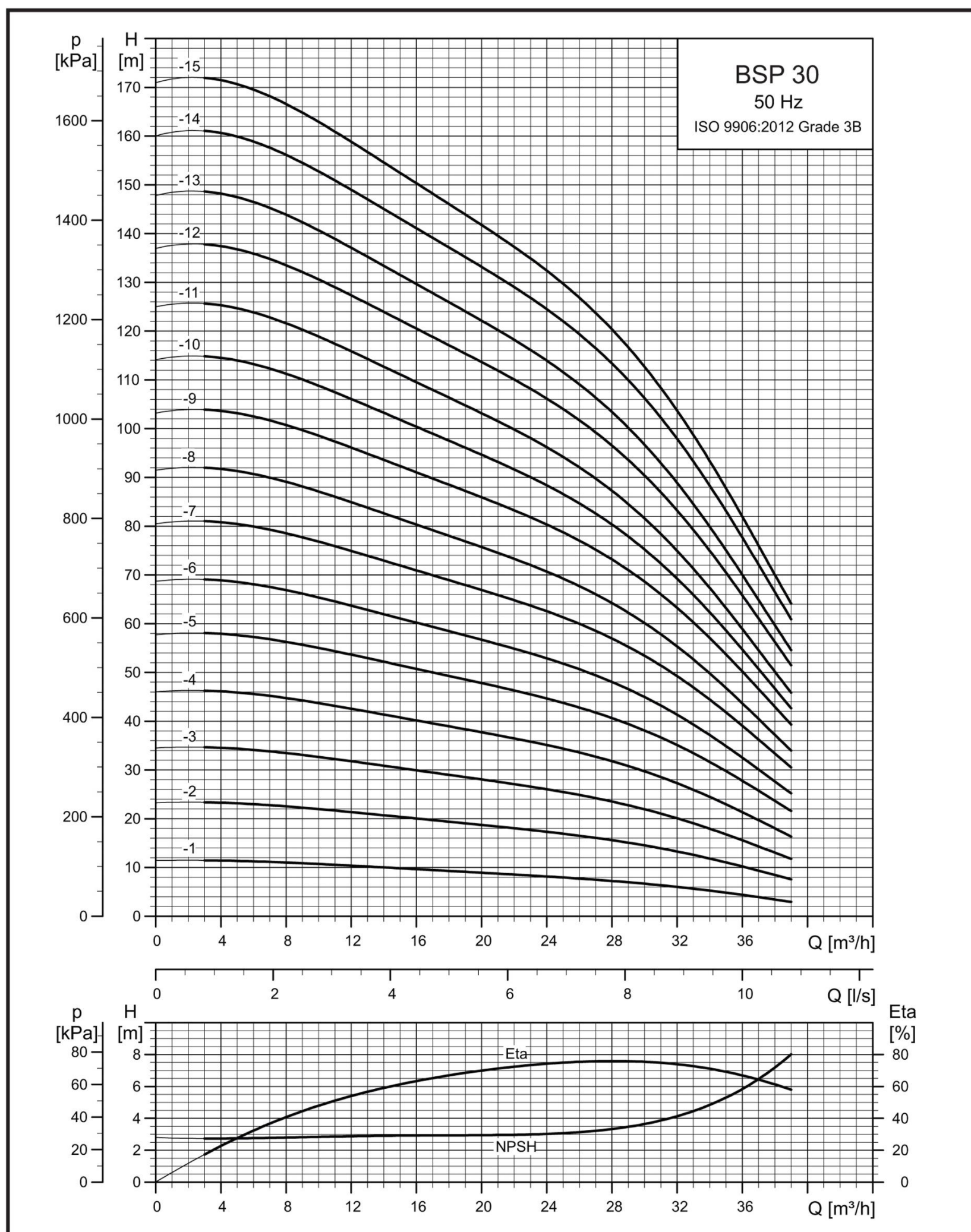


SUBMERSIBLE PUMP PERFORMANCE CHART

BORANA PUMPS PERFORMANCE CHART													
BSP-30			DISCHARGE (Q)										
			m3/h	0	4	8	12	16	20	24	28	32	39
			l/min.	0	66.7	133.3	200	266.7	333.3	400	466.7	533.3	650
MODEL	MOTOR RATING		TOTAL HEAD IN (m)										
	[kW]	[HP]											
BSP 30-01	1.1	1.5	11	11	11	10	10	9	8	7	6	3	
BSP 30-02	2.2	3	23	23	23	21	20	19	17	16	13	8	
BSP 30-03	3	4	35	35	33	32	30	28	26	24	20	12	
BSP 30-04	4	5.5	46	46	45	43	40	38	35	32	27	16	
BSP 30-05	5.5	7.5	58	58	56	54	51	48	45	41	35	22	
BSP 30-06	5.5	7.5	69	69	67	64	60	57	53	48	41	25	
BSP 30-07	7.5	10	80	81	79	75	71	67	63	57	49	31	
BSP 30-08	7.5	10	91	92	89	85	80	76	71	64	55	34	
BSP 30-09	9.3	12.5	103	104	101	96	91	86	80	73	63	39	
BSP 30-10	9.3	12.5	114	115	111	106	100	95	88	80	69	43	
BSP 30-11	9.3	12.5	125	125	122	116	110	103	96	87	75	46	
BSP 30-12	11	15	137	137	134	127	121	114	106	97	83	51	
BSP 30-13	11	15	148	148	144	137	130	122	114	103	89	55	
BSP 30-14	13	17.5	160	161	156	149	141	133	125	113	98	61	
BSP 30-15	13	17.5	171	171	167	159	150	142	132	120	104	64	
BSP 30-16	15	20	183	184	179	171	162	153	143	130	112	70	
BSP 30-17	15	20	194	195	189	180	171	161	151	137	118	74	
BSP 30-18	18.5	25	207	208	202	193	183	173	163	148	129	82	
BSP 30-19	18.5	25	218	219	213	203	193	182	171	156	135	85	
BSP 30-20	18.5	25	229	230	223	213	202	191	179	163	141	89	
BSP 30-21	18.5	25	240	241	234	223	212	200	187	170	147	92	
BSP 30-22	22	30	252	253	246	235	223	211	198	180	156	99	
BSP 30-23	22	30	263	264	257	245	233	220	206	188	162	102	
BSP 30-24	22	30	274	275	268	255	242	228	214	195	168	105	
BSP 30-25	22	30	285	286	278	265	251	237	221	201	174	108	
BSP 30-26	22	30	296	297	288	275	260	245	229	208	179	111	
BSP 30-27	26	35	309	310	302	288	274	259	242	221	191	121	
BSP 30-28	26	35	320	321	313	298	283	267	250	228	197	124	
BSP 30-29	26	35	331	332	323	308	292	276	258	235	203	127	
BSP 30-30	26	35	342	343	333	318	301	284	266	242	209	130	
BSP 30-31	26	35	353	354	344	328	310	293	274	249	215	133	
BSP 30-32	30	40	367	368	358	342	324	306	287	262	227	143	
BSP 30-33	30	40	378	379	369	352	334	315	295	269	232	146	
BSP 30-34	30	40	389	390	379	362	343	324	303	276	238	149	
BSP 30-35	30	40	399	401	390	372	352	332	310	283	244	152	
BSP 30-39	37	50	445	447	435	416	395	374	351	320	278	176	
BSP 30-43	37	50	489	491	478	456	433	409	383	350	303	190	
BSP 30-46	45	60	531	535	521	499	475	451	424	389	341	220	
BSP 30-49	45	60	565	568	554	530	504	478	450	413	361	233	

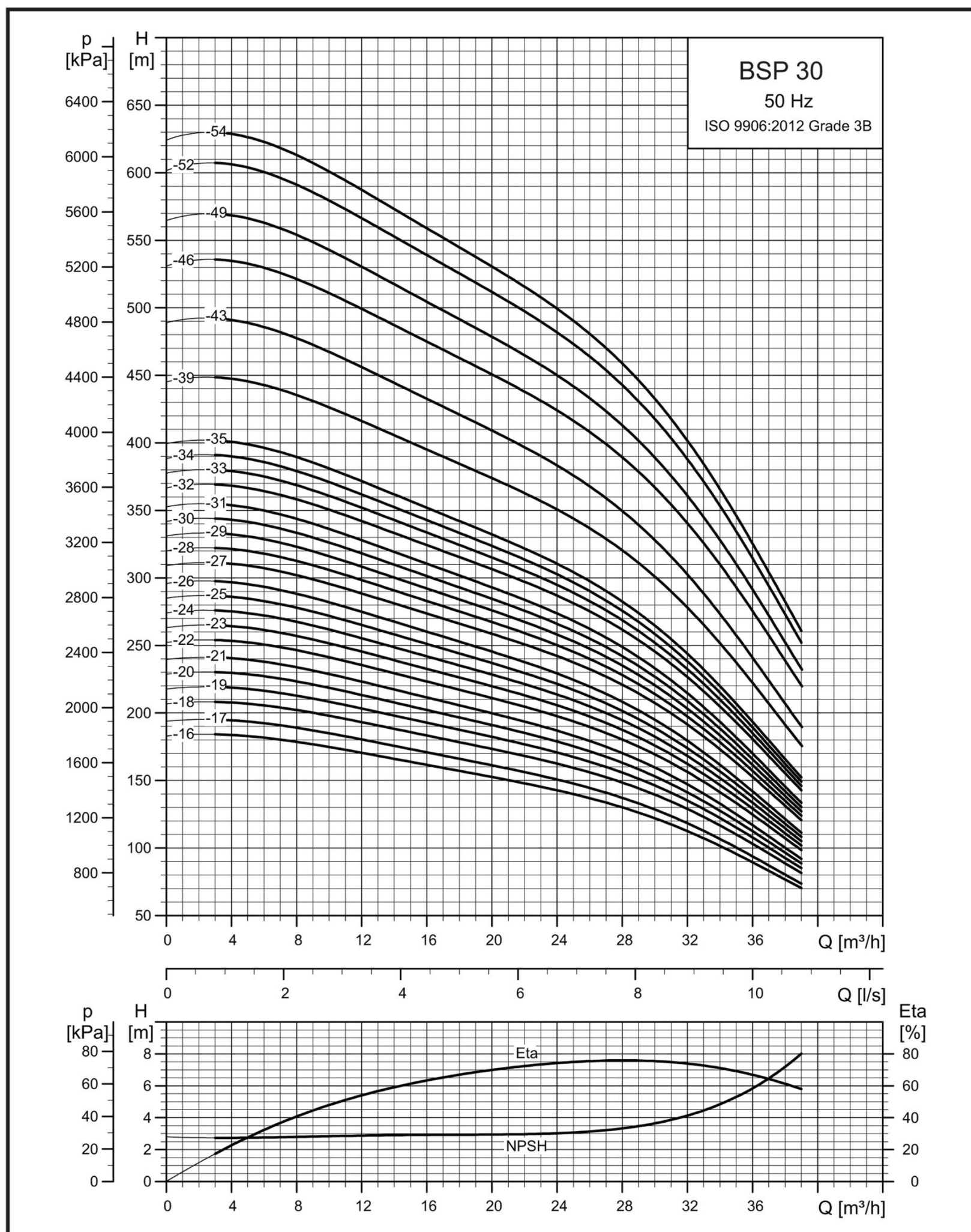
SUBMERSIBLE PUMP PERFORMANCE CURVE

3.8 BSP 30 - Performance Curve



SUBMERSIBLE PUMP PERFORMANCE CURVE

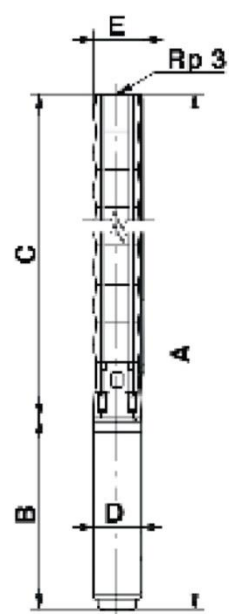
BSP 30 - Performance Curve



SUBMERSIBLE PUMP TECHNICAL DATA

BSP 30 - Technical Data

Dimensions and Weights



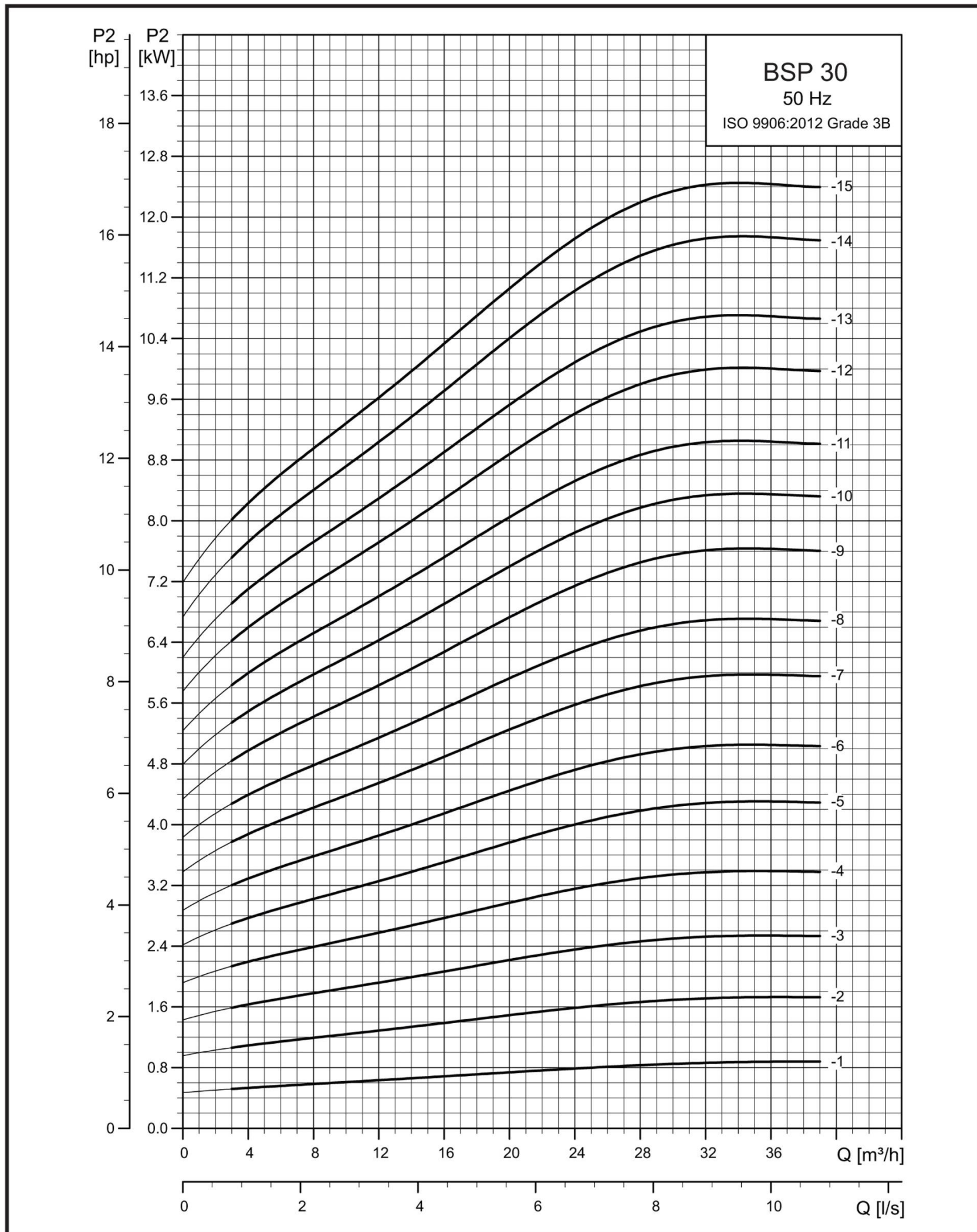
BSP 30-39 to BSP 30-54 are mounted in sleeve for R 3 connection.

Pump type	Motor		Dimensions [mm]					Net weight [kg]	
	Type	Power [kW]	C	B	A	D	E*		E**
Single-phase, 1 x 230 V									
BSP 30-1	BM 4	2.2	373	577	950	95	134	27	
BSP 30-2	BM 4	2.2	469	577	1046	95	134	29	
Three-phase, 3 x 230 V / 3 x 400 V									
BSP 30-1	BM 4	1.1	373	417	790	95	134	20	
BSP 30-2	BM 4	2.2	469	457	926	95	134	24	
BSP 30-3	BM 4	3	565	497	1062	95	134	26	
BSP 30-4	BM 4	4	661	577	1238	95	134	32	
BSP 30-5	BM 4	5.5	757	677	1434	95	134	39	
BSP 30-6	BM 4	5.5	853	677	1530	95	134	41	
BSP 30-7	BM 4	7.5	949	777	1726	95	134	48	
BSP 30-8	BM 4	7.5	1045	777	1822	95	134	50	
BSP 30-5	BSF 6	5.5	757	544	1301	143	142	47	
BSP 30-6	BSF 6	5.5	853	544	1397	143	142	49	
BSP 30-7	BSF 6	7.5	949	574	1523	143	142	55	
BSP 30-8	BSF 6	7.5	1045	574	1619	143	142	57	
BSP 30-9	BSF 6	9.2	1141	604	1745	143	142	64	
BSP 30-10	BSF 6	9.2	1237	604	1841	143	142	144	66
BSP 30-11	BSF 6	9.2	1333	604	1937	143	142	144	68
BSP 30-12	BSF 6	11	1429	634	2063	143	142	144	73
BSP 30-13	BSF 6	11	1525	634	2159	143	142	144	75
BSP 30-14	BSF 6	13	1621	664	2285	143	142	144	80
BSP 30-15	BSF 6	13	1717	664	2381	143	142	144	82
BSP 30-16	BSF 6	15	1813	699	2512	143	142	144	88
BSP 30-17	BSF 6	15	1909	699	2608	143	142	144	90
BSP 30-18	BSF 6	18.5	2005	754	2759	143	142	144	97
BSP 30-19	BSF 6	18.5	2101	754	2855	143	142	144	99
BSP 30-20	BSF 6	18.5	2197	754	2951	143	142	144	101
BSP 30-21	BSF 6	18.5	2293	754	3047	143	142	144	103
BSP 30-22	BSF 6	22	2389	814	3203	143	142	144	111
BSP 30-23	BSF 6	22	2485	814	3299	143	142	144	113
BSP 30-24	BSF 6	22	2581	814	3395	143	142	144	115
BSP 30-25	BSF 6	22	2677	814	3491	143	142	144	117
BSP 30-26	BSF 6	22	2773	814	3587	143	142	144	119
BSP 30-27	BSF 6	26	2869	874	3743	143	142	144	126
BSP 30-28	BSF 6	26	2965	874	3839	143	142	144	128
BSP 30-29	BSF 6	26	3061	874	3935	143	142	144	130
BSP 30-30	BSF 6	26	3157	874	4031	143	142	144	132
BSP 30-31	BSF 6	26	3253	874	4127	143	142	144	134
BSP 30-32	BSF 6	30	3349	944	4293	143	142	144	144
BSP 30-33	BSF 6	30	3445	944	4389	143	142	144	146
BSP 30-34	BSF 6	30	3541	944	4485	143	142	144	148
BSP 30-35	BSF 6	30	3637	944	4581	143	142	144	150
BSP 30-39	BSF 6	37	4021	1312	5333	144	175	181	248
BSP 30-43	BSF 6	37	4405	1312	5717	144	175	181	259
BSP 30-46	BMCI 8	45	4693	1270	5963	192	192	192	326
BSP 30-49	BMCI 8	45	4981	1270	6251	192	192	192	334
BSP 30-52	BMCI 8	55	5269	1350	6619	192	192	192	357
BSP 30-54	BMCI 8	55	5461	1350	6811	192	192	192	362

The pump types above are also available in N- and R-versions. See page 3.
Pumps mounted in sleeve are only available in standard and N-versions.
Other types of connection are possible by means of connecting pieces.

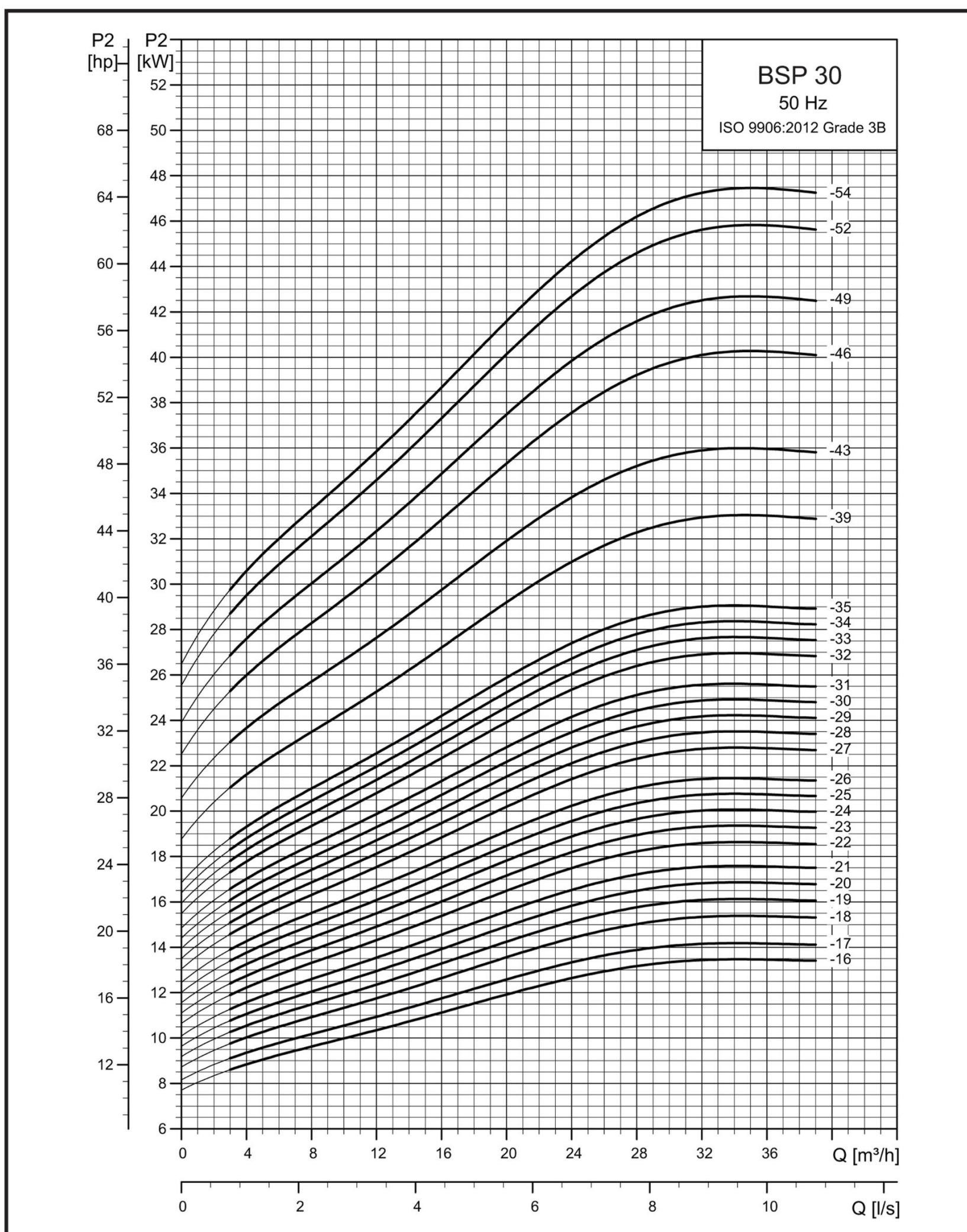
SUBMERSIBLE PUMP POWER CURVE

BSP 30 - Power Curve



SUBMERSIBLE PUMP POWER CURVE

BSP 30 - Power Curve



BORANA 6" STAINLESS STEEL SUBMERSIBLE PUMPS



SUBMERSIBLE PUMP PERFORMANCE CHART

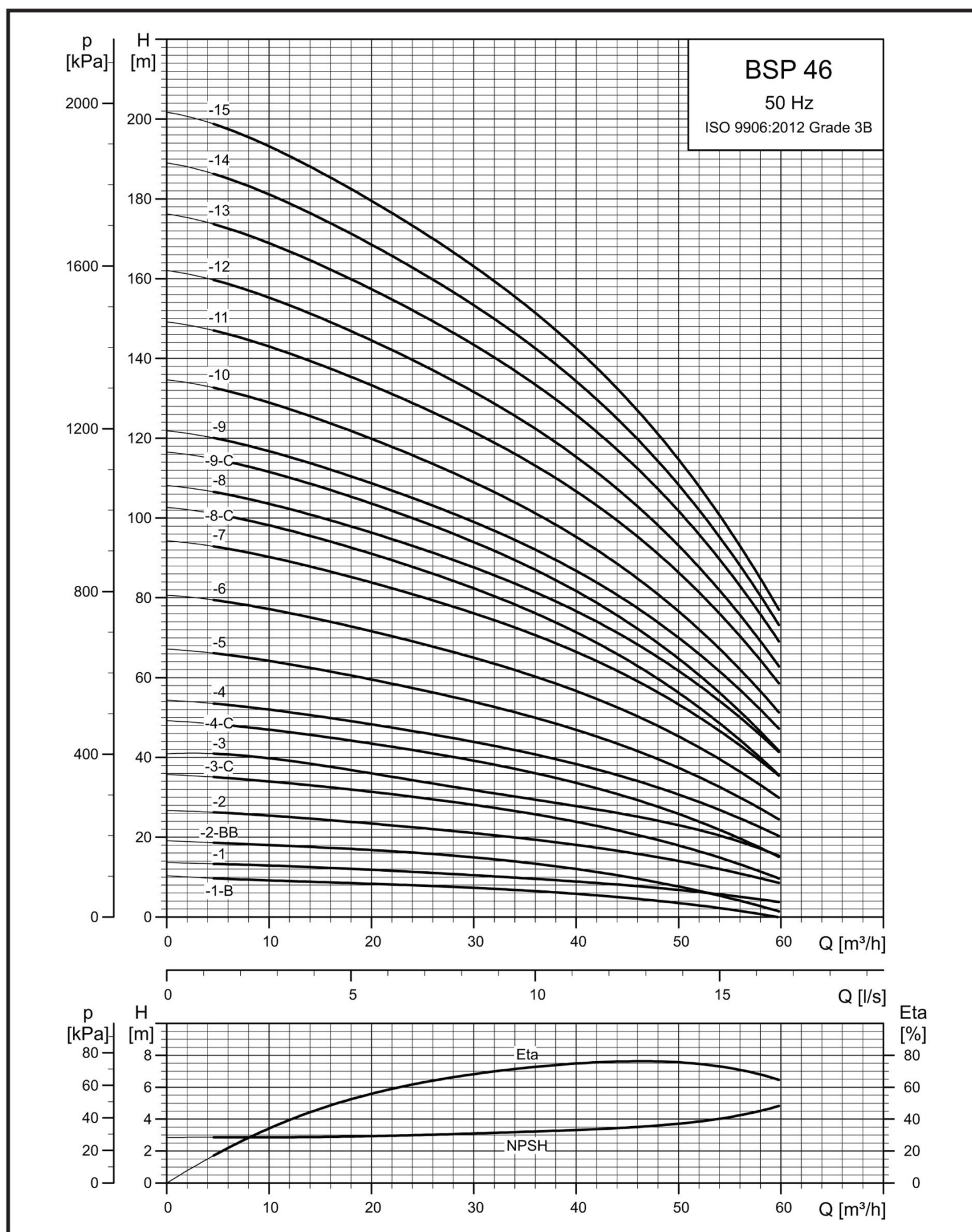
BORANA PUMPS PERFORMANCE CHART														
BSP-46			DISCHARGE (Q)											
			m3/h	0	5	10	15	20	25	30	35	40	45	50
			l/min.	0	83.3	166.7	250	333.3	416.7	500	583.3	666.7	750	833.3
MODEL	MOTOR RATING		TOTAL HEAD IN (m)											
	[kW]	[HP]												
BSP 46-2-BB	2.2	3	19	19	18	17	17	16	15	14	12	10	8	5
BSP 46- 2	3	4	27	26	25	24	23	22	21	20	18	16	14	11
BSP 46-3-C	4	5.5	36	35	34	33	31	30	28	26	24	21	18	14
BSP 46-3	5.5	7.5	41	41	40	38	36	34	32	30	28	26	23	20
BSP 46-4-C	5.5	7.5	49	48	47	45	43	41	39	37	34	30	26	21
BSP 46-4	7.5	10	54	53	52	50	48	46	44	41	38	35	31	26
BSP 46-5	7.5	10	67	66	64	62	60	57	54	51	47	43	37	31
BSP 46- 6	9.3	12.5	81	79	77	75	72	68	65	61	57	51	45	38
BSP 46- 7	11	15	94	93	90	87	84	80	76	72	66	60	53	45
BSP 46-8-C	11	15	103	101	98	95	91	87	82	77	71	64	56	46
BSP 46-8	13	17.5	108	106	104	100	96	92	88	83	77	70	62	52
BSP 46-9-C	13	17.5	117	115	112	108	104	99	94	88	82	74	65	54
BSP 46-9	15	20	122	120	117	113	109	104	99	93	87	79	70	59
BSP 46-10	15	20	135	132	129	125	120	115	109	103	95	87	77	65
BSP 46-11	18.5	25	149	147	143	138	133	128	122	115	107	97	86	73
BSP 46-12	18.5	25	162	159	155	150	145	138	132	124	115	105	93	79
BSP 46-13	22	30	176	173	169	163	157	151	143	135	126	115	102	86
BSP 46-14	22	30	189	186	181	175	169	161	153	144	134	122	108	92
BSP 46-15	22	30	202	198	193	187	180	172	163	154	143	130	115	97
BSP 46-16	26	35	217	213	208	201	193	185	176	166	155	141	125	106
BSP 46-17	26	35	229	226	220	213	205	196	186	175	163	149	132	112
BSP 46-18	30	40	244	241	234	227	219	209	199	188	175	160	142	121
BSP 46-19	30	40	257	253	247	239	230	220	209	197	183	167	148	126
BSP 46-20	30	40	270	265	259	251	241	230	219	206	192	175	155	132
BSP 46-21	37	50	285	280	273	265	255	245	234	221	206	188	167	143
BSP 46-22	37	50	298	293	286	277	267	256	244	230	215	196	174	148
BSP 46-23	37	50	311	306	298	289	278	267	254	240	223	204	181	154
BSP 46-24	37	50	324	318	310	300	289	277	264	249	232	212	188	160
BSP 46-26	45	60	357	351	343	332	321	308	295	279	261	239	214	183
BSP 46-28	45	60	383	377	368	357	345	331	316	299	280	256	229	196
BSP 46-30	45	60	410	403	393	381	368	353	337	319	298	273	244	208
BSP 46-33	55	75	452	445	435	422	407	391	374	354	331	303	271	232

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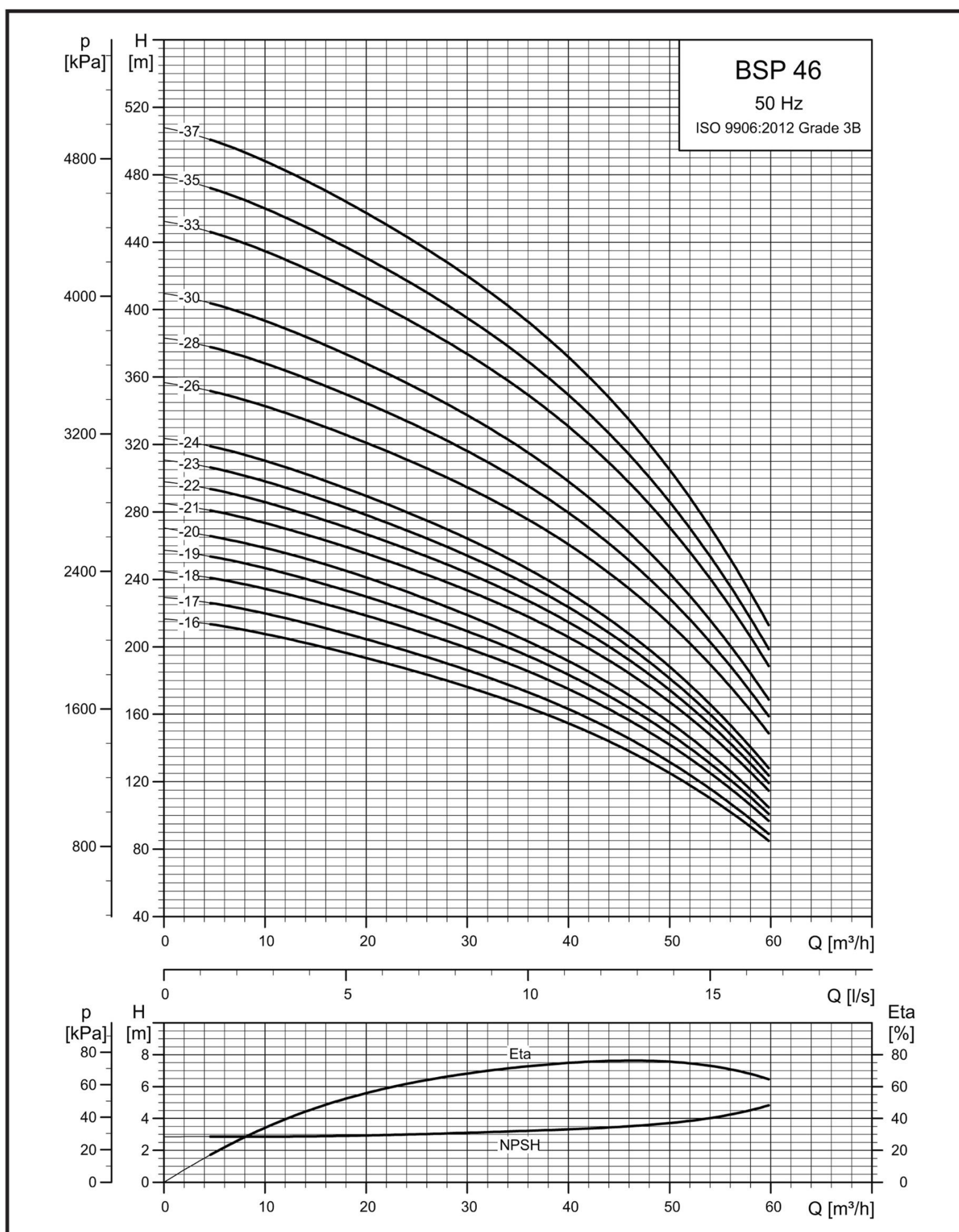
SUBMERSIBLE PUMP PERFORMANCE CURVE

3.9 BSP 46 - Performance Curve



SUBMERSIBLE PUMP PERFORMANCE CURVE

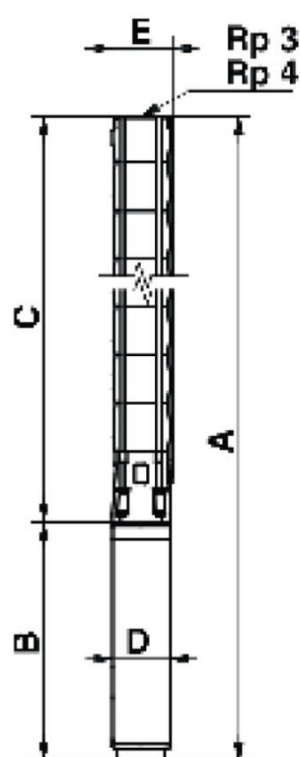
BSP 46 - Performance Curve



SUBMERSIBLE PUMP TECHNICAL DATA

BSP 46 - Technical Data

Dimensions and Weights



BSP 46-26 to BSP 46-37 are mounted in sleeve for R 4 connection.

Pump type	Motor		Dimensions [mm]						Net weight [kg]
	Type	Power [kW]	Rp 3 / Rp 4 connection				B	D	
			A	C	E*	E**			
BSP 46-1-B	BM 4	1.1	816	399	146		417	95	21
BSP 46-1	BM 4	2.2	856	399	146		457	95	23
BSP 46-2-BB	BM 4	2.2	969	512	146		457	95	26
BSP 46-2	BM 4	3	1009	512	146		497	95	27
BSP 46-3-C	BM 4	4	1202	625	146		577	95	33
BSP 46-3	BM 4	5.5	1302	625	146		677	95	38
BSP 46-4-C	BM 4	5.5	1415	738	146		677	95	40
BSP 46-4	BM 4	7.5	1515	738	146		777	95	45
BSP 46-5	BM 4	7.5	1628	851	146		777	95	48
BSP 46-3	BSF 6	5.5	1169	625	148	151	544	143	48
BSP 46-4-C	BSF 6	5.5	1282	738	148	151	544	143	51
BSP 46-4	BSF 6	7.5	1312	738	148	151	574	143	54
BSP 46-5	BSF 6	7.5	1425	851	148	151	574	143	57
BSP 46-6	BSF 6	9.2	1568	964	148	151	604	143	64
BSP 46-7	BSF 6	11	1711	1077	148	151	634	143	70
BSP 46-8-C	BSF 6	11	1824	1190	148	151	634	143	72
BSP 46-8	BSF 6	13	1854	1190	148	151	664	143	75
BSP 46-9-C	BSF 6	13	1967	1303	148	151	664	143	78
BSP 46-9	BSF 6	15	2002	1303	148	151	699	143	82
BSP 46-10	BSF 6	15	2115	1416	148	151	699	143	84
BSP 46-11	BSF 6	18.5	2283	1529	148	151	754	143	92
BSP 46-12	BSF 6	18.5	2396	1642	148	151	754	143	94
BSP 46-13	BSF 6	22	2569	1755	148	151	814	143	103
BSP 46-14	BSF 6	22	2682	1868	148	151	814	143	106
BSP 46-15	BSF 6	22	2795	1981	148	151	814	143	108
BSP 46-16	BSF 6	26	2968	2094	148	151	874	143	116
BSP 46-17	BSF 6	26	3081	2207	148	151	874	143	118
BSP 46-18	BSF 6	30	3264	2320	148	151	944	143	129
BSP 46-19	BSF 6	30	3377	2433	148	151	944	143	131
BSP 46-20	BSF 6	30	3490	2546	148	151	944	143	134
BSP 46-21	BSF 6	37	3971	2659	150	153	1312	144	176
BSP 46-22	BSF 6	37	4084	2772	150	153	1312	144	179
BSP 46-23	BSF 6	37	4197	2885	150	153	1312	144	181
BSP 46-24	BSF 6	37	4310	2998	150	153	1312	144	183
BSP 46-26	BMCI 8	45	4494	3224	192	192	1270	192	278
BSP 46-28	BMCI 8	45	4720	3450	192	192	1270	192	284
BSP 46-30	BMCI 8	45	4946	3676	192	192	1270	192	290
BSP 46-33	BMCI 8	55	5365	4015	192	192	1350	192	314
BSP 46-35	BMCI 8	55	5591	4241	192	192	1350	192	320
BSP 46-37	BMCI 8	63	5957	4467	192	192	1490	192	352

*Maximum diameter of pump with one motor cable.

** Maximum diameter of pump with two motor cables.

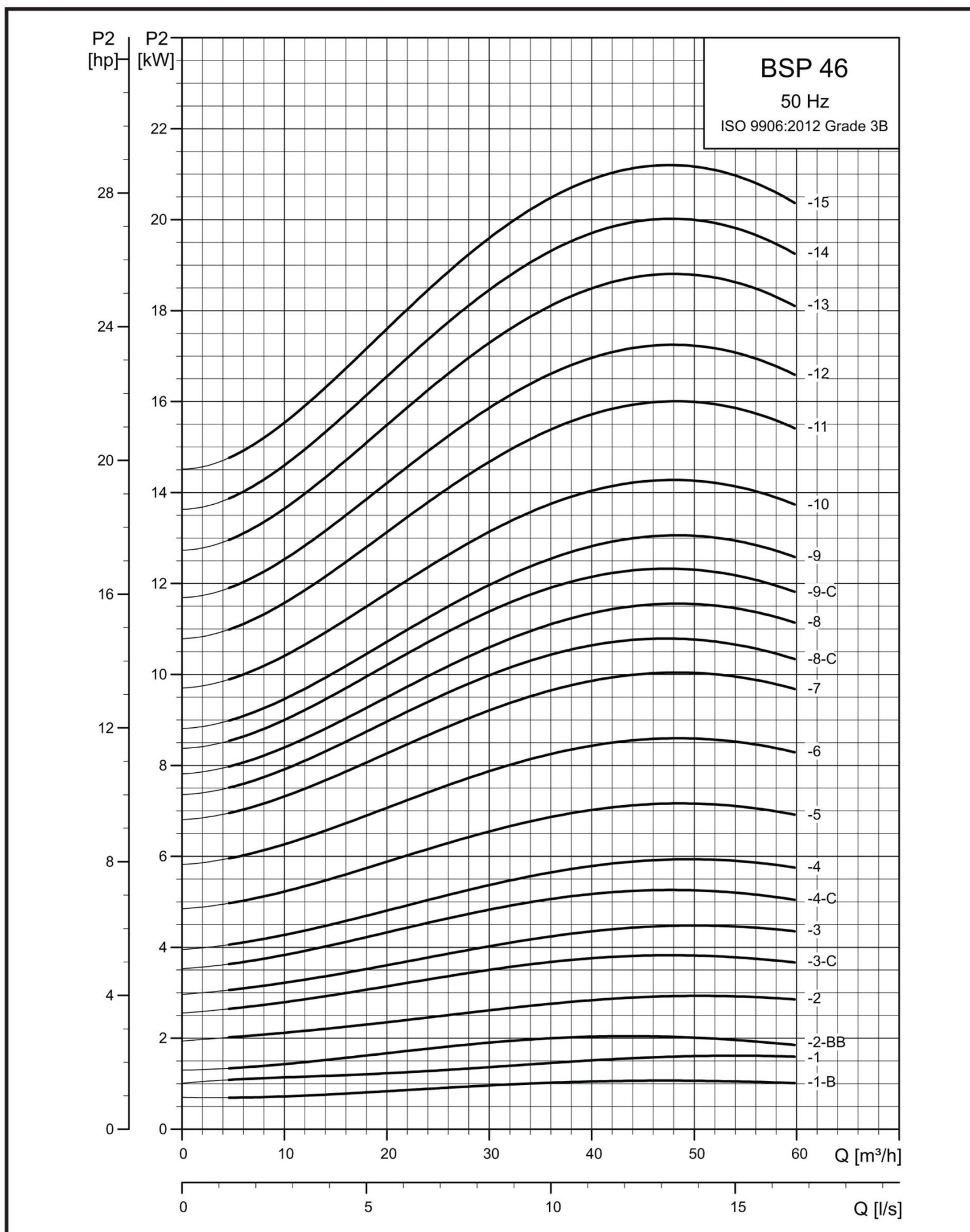
The pump types above are also available in N-versions. See page 3.

Pumps mounted in sleeve are only available in standard and N-versions.

Other types of connection are possible by means of connecting pieces.

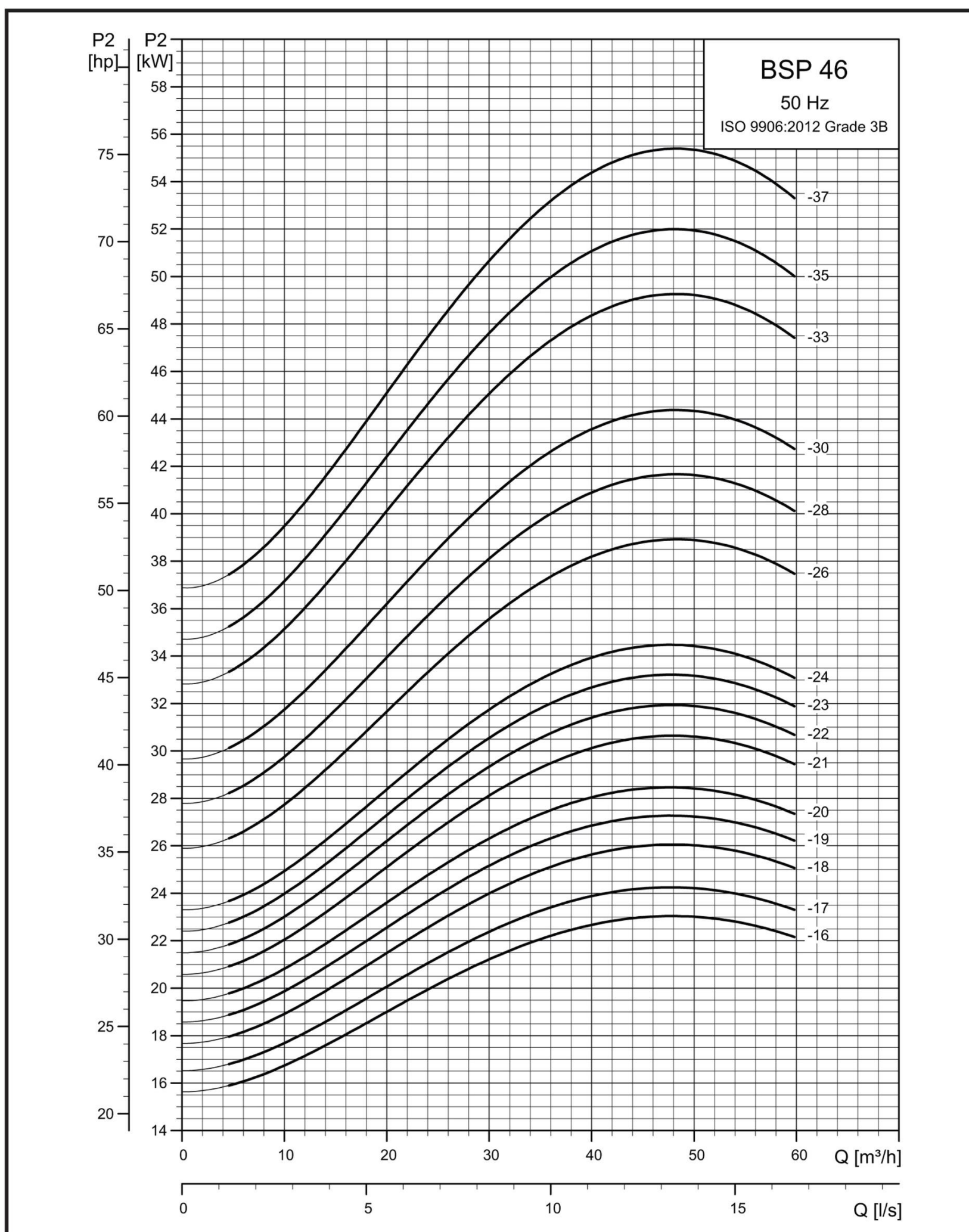
SUBMERSIBLE PUMP POWER CURVE

BSP 46 - Power Curve



SUBMERSIBLE PUMP POWER CURVE

BSP 46 - Power Curve



BORANA 6" STAINLESS STEEL SUBMERSIBLE PUMPS



SUBMERSIBLE PUMP PERFORMANCE CHART

BORANA PUMPS PERFORMANCE CHART												
BSP-60			DISCHARGE (Q)									
			m3/h	0	10	20	30	40	50	60	70	78
			l/min.	0	166.7	333.3	500	666.7	833.3	1000	1166.7	1300
MODEL	MOTOR RATING		TOTAL HEAD IN (m)									
	[kW]	[HP]										
BSP 60 1-A	1.5	2	12	11	10	8	6	5	4	1	0	
BSP 60-1	2.2	3	14	14	13	12	11	10	8	6	5	
BSP 60-2-B	3	4	22	22	21	18	15	13	10	6	1	
BSP 60-2	4	5.5	28	27	26	23	19	17	14	10	5	
BSP 60-3	5.5	7.5	42	41	39	35	30	26	22	16	10	
BSP 60-4	7.5	10	56	55	52	47	41	35	30	22	14	
BSP 60-5	9.3	12.5	71	69	66	59	51	44	38	28	18	
BSP 60-6	11	15	85	83	79	71	62	54	45	34	22	
BSP 60-7	13	17.5	99	97	92	83	73	63	53	40	26	
BSP 60-8-B	13	17.5	108	105	100	90	79	68	57	42	26	
BSP 60-8	15	20	114	112	106	96	84	73	61	47	31	
BSP 60-9-B	15	20	122	119	113	102	90	78	65	48	30	
BSP 60-9	18.5	25	129	127	121	109	95	83	71	54	37	
BSP 60-10	18.5	25	143	140	133	120	105	92	78	60	41	
BSP 60-11	22	30	158	154	147	133	116	101	86	67	45	
BSP 60-12	22	30	171	167	159	144	126	110	94	72	50	
BSP 60-13	26	35	187	183	174	157	138	120	103	79	54	
BSP 60-14	26	35	200	196	186	168	148	129	110	85	58	
BSP 60-15	26	35	214	209	198	179	157	136	116	89	60	
BSP 60-16	30	40	230	224	213	192	169	147	125	96	65	
BSP 60-17	30	40	243	237	225	203	179	155	132	101	69	
BSP 60-18	37	50	260	254	242	219	193	168	143	111	77	
BSP 60-19	37	50	274	268	255	231	203	177	151	117	81	
BSP 60-20	37	50	287	281	267	242	213	186	158	123	85	
BSP 60-21	37	50	301	294	279	253	223	194	166	129	89	
BSP 60-22	45	60	323	316	302	274	242	211	181	142	100	

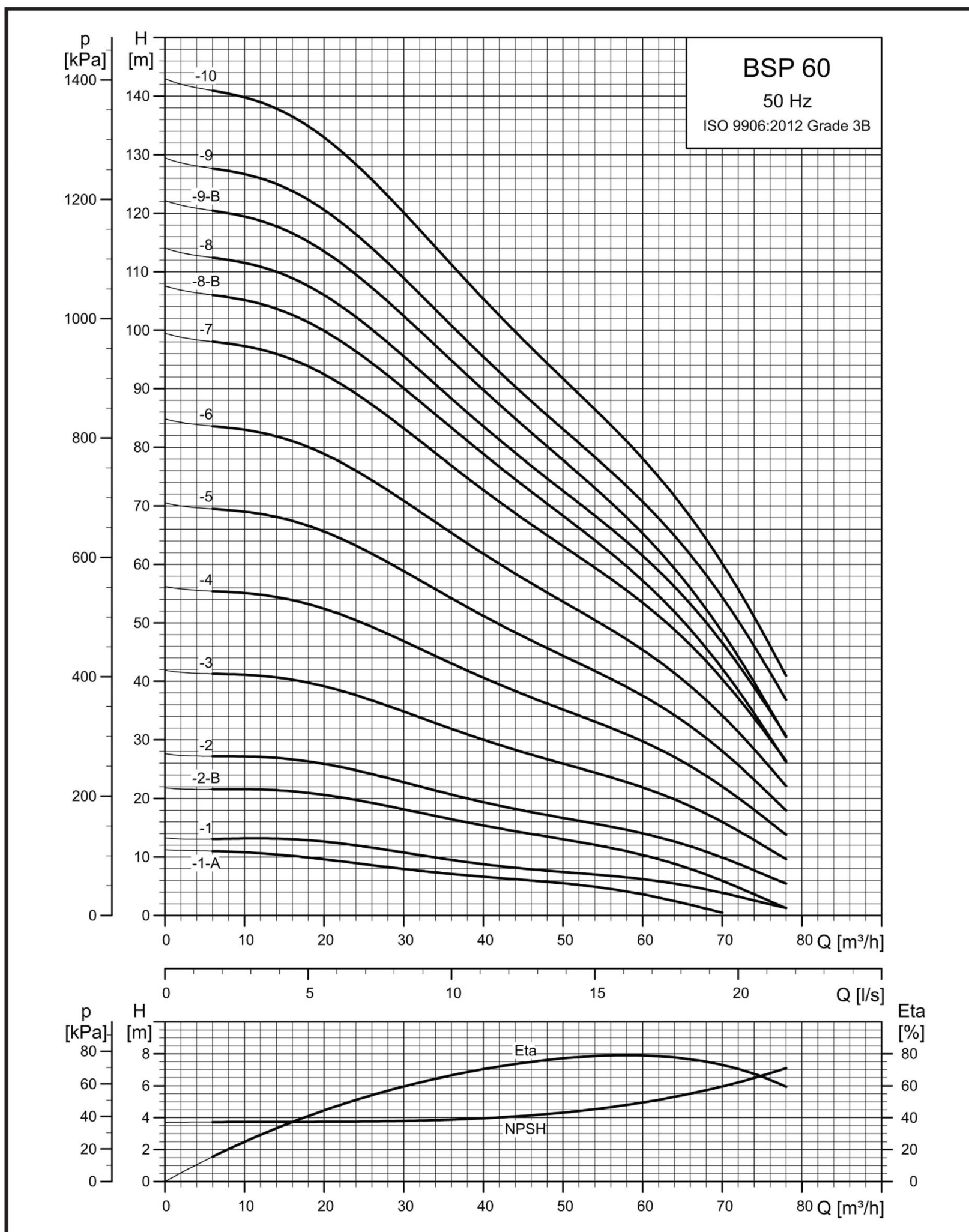
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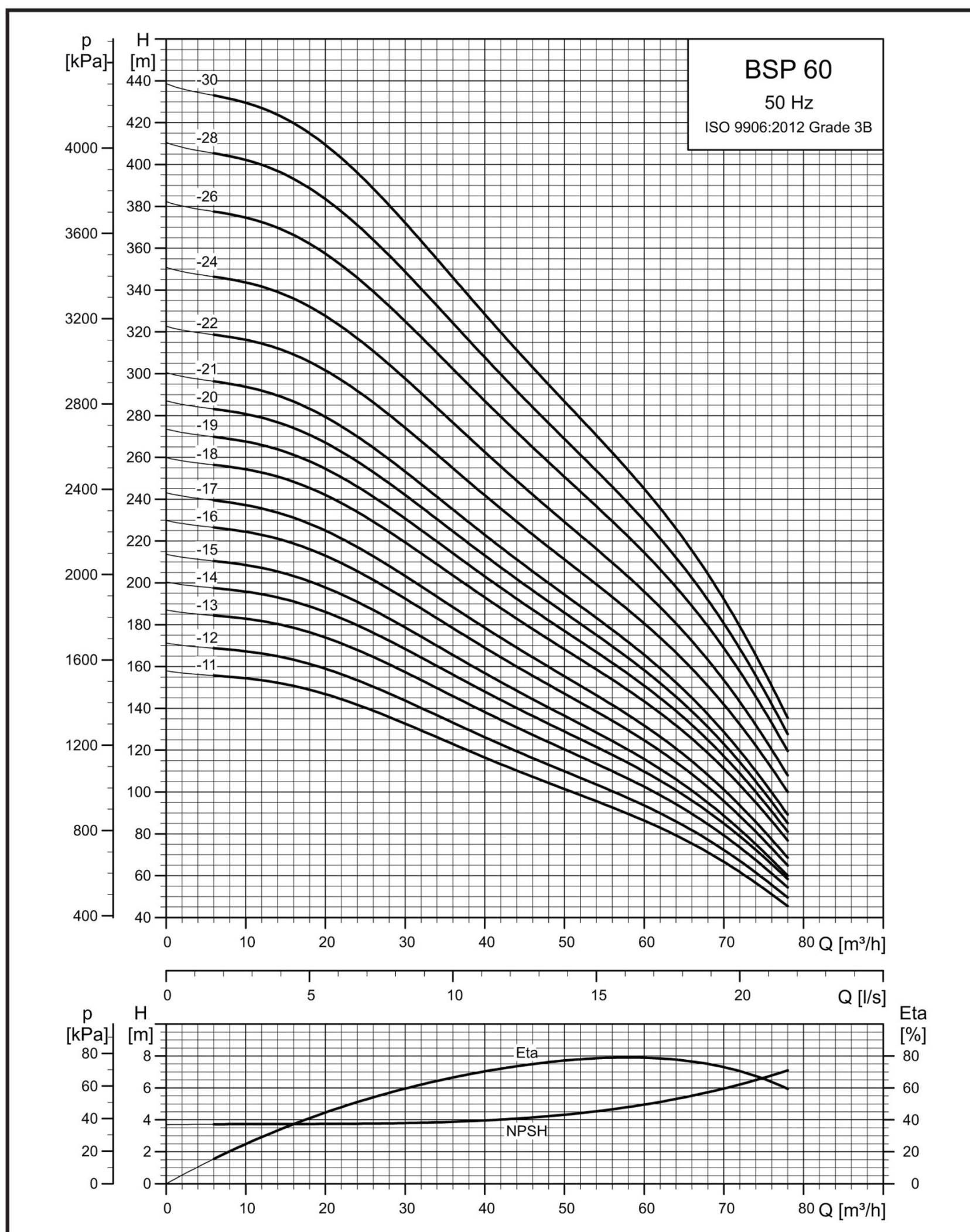
SUBMERSIBLE PUMP PERFORMANCE CURVE

3.10 BSP 60 - Performance Curve



SUBMERSIBLE PUMP PERFORMANCE CURVE

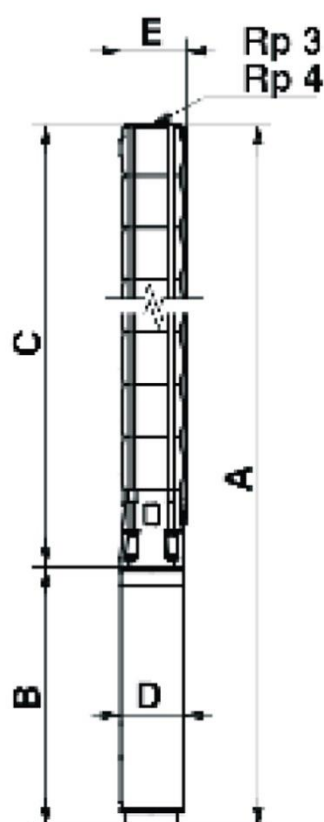
BSP 60 - Performance Curve



SUBMERSIBLE PUMP TECHNICAL DATA

BSP 60 - Technical Data

Dimensions and Weights



BSP 60-24 to BSP 60-30 are mounted in sleeve for R4 connection

Pump type	Motor		Dimensions [mm]						Net weight [kg]
	Type	Power [kW]	Rp 3 / Rp 4 connection				B	D	
			A	C	E*	E**			
BSP 60-1-A	BM 4	1.5	816	399	146		417	95	21
BSP 60-1	BM 4	2.2	856	399	146		457	95	23
BSP 60-2-B	BM 4	3	1009	512	146		497	95	27
BSP 60-2	BM 4	4	1089	512	146		577	95	31
BSP 60-3	BM 4	5.5	1302	625	146		677	95	38
BSP 60-4	BM 4	7.5	1515	738	146		777	95	45
BSP 60-3	BSF 6	5.5	1169	625	148	151	544	143	48
BSP 60-4	BSF 6	7.5	1312	738	148	151	574	143	54
BSP 60-5	BSF 6	9.2	1455	851	148	151	604	143	62
BSP 60-6	BSF 6	11	1598	964	148	151	634	143	67
BSP 60-7	BSF 6	13	1741	1077	148	151	664	143	73
BSP 60-8-B	BSF 6	13	1854	1190	148	151	664	143	75
BSP 60-8	BSF 6	15	1889	1190	148	151	699	143	79
BSP 60-9-B	BSF 6	15	2002	1303	148	151	699	143	82
BSP 60-9	BSF 6	18.5	2057	1303	148	151	754	143	87
BSP 60-10	BSF 6	18.5	2170	1416	148	151	754	143	90
BSP 60-11	BSF 6	22	2343	1529	148	151	814	143	98
BSP 60-12	BSF 6	22	2456	1642	148	151	814	143	100
BSP 60-13	BSF 6	26	2629	1755	148	151	874	143	109
BSP 60-14	BSF 6	26	2742	1868	148	151	874	143	111
BSP 60-15	BSF 6	26	2855	1981	148	151	874	143	114
BSP 60-16	BSF 6	30	3038	2094	148	151	944	143	124
BSP 60-17	BSF 6	30	3151	2207	148	151	944	143	126
BSP 60-18	BSF 6	37	3632	2320	150	153	1312	144	169
BSP 60-19	BSF 6	37	3745	2433	150	153	1312	144	171
BSP 60-20	BSF 6	37	3858	2546	150	153	1312	144	174
BSP 60-21	BSF 6	37	3971	2659	150	153	1312	144	176
BSP 60-22	BMC I 8	45	4042	2772	192	192	1270	192	239
BSP 60-24	BMC I 8	45	4268	2998	192	192	1270	192	272
BSP 60-26	BMC I 8	55	4574	3224	192	192	1350	192	293
BSP 60-28	BMC I 8	55	4800	3450	192	192	1350	192	299
BSP 60-30	BMC I 8	55	5026	3676	192	192	1350	192	305

*Maximum diameter of pump with one motor cable.

** Maximum diameter of pump with two motor cables.

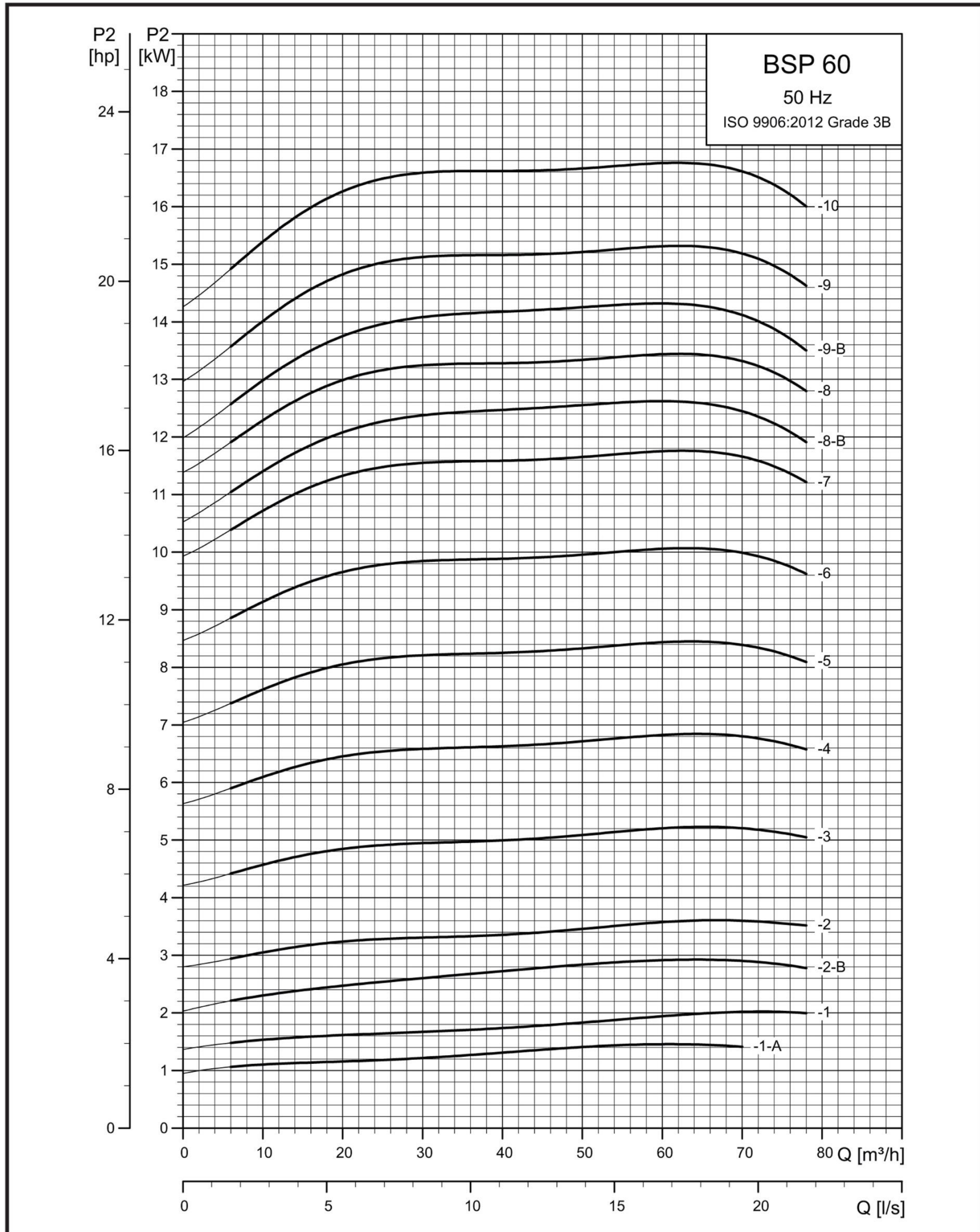
The pump types above are also available in N-versions. See page 3.

Pumps mounted in sleeve are only available in standard and N-versions.

Other types of connection are possible by means of connecting pieces.

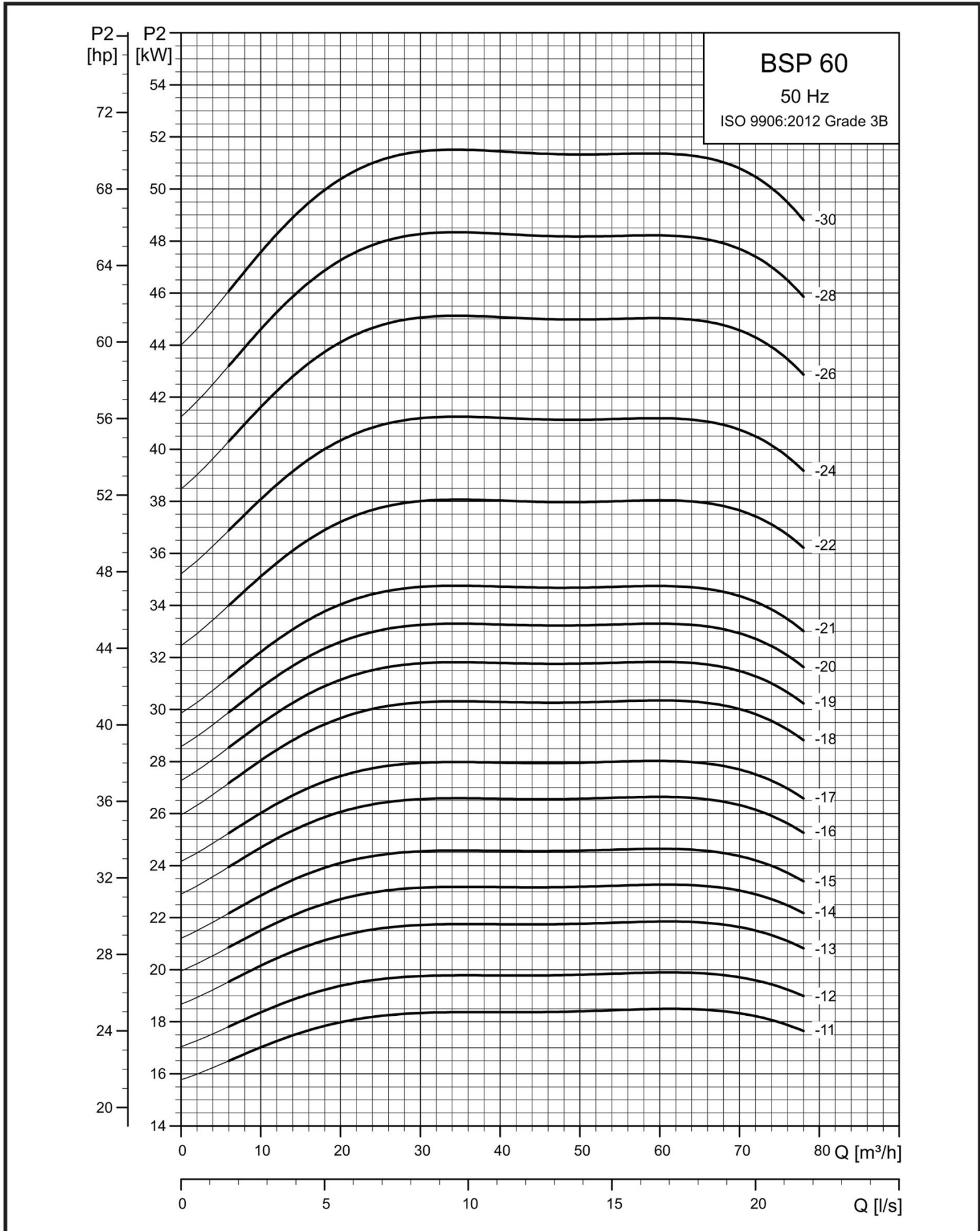
SUBMERSIBLE PUMP POWER CURVE

BSP 60 - Power Curve



SUBMERSIBLE PUMP POWER CURVE

BSP 60 - Power Curve



Important Note:

- Performance May Vary Depending Upon Voltage, Frequency and Field Conditions
- Price List & Technical Data May Change Without Prior Notice.

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