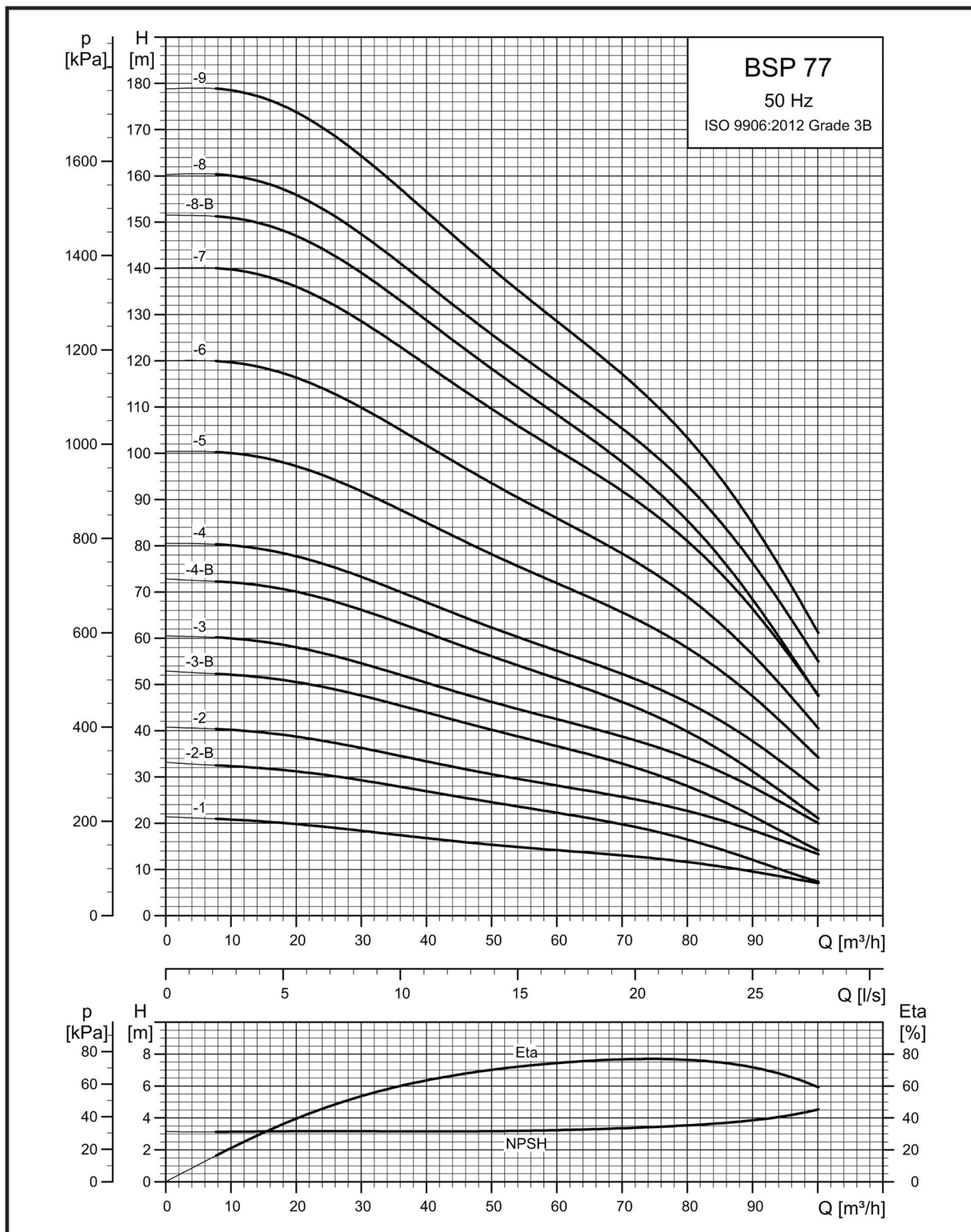


SUBMERSIBLE PUMP PERFORMANCE CHART

BORANA PUMPS PERFORMANCE CHART													
BSP-77		DISCHARGE (Q)											
		m3/h	0	10	20	30	40	50	60	70	80	90	100
		l/min.	0	166.7	333.3	500	666.7	833.3	1000	1167	1333	1500	1666.7
MODEL	MOTOR RATING		TOTAL HEAD IN (m)										
	[kW]	[HP]											
BSP 77-1	5.5	7.5	21	21	20	18	17	15	14	13	12	10	7
BSP 77-2-B	5.5	7.5	33	32	31	29	27	25	22	20	16	12	7
BSP 77-2	7.5	10	41	40	39	36	33	31	28	26	23	18	13
BSP 77-3-B	9.3	125	53	52	51	48	44	40	37	33	28	22	14
BSP 77-3	11	15	61	60	58	55	50	46	42	39	34	28	20
BSP 77-4-B	13	18	73	72	70	66	61	56	51	46	40	31	21
BSP 77-4	15	20	81	80	78	73	68	62	57	52	46	38	27
BSP 77-5	18.5	25	100	100	97	92	85	78	72	66	58	47	34
BSP 77-6	22	30	120	120	116	110	102	94	86	78	69	56	41
BSP 77-7	26	35	140	140	136	129	119	110	101	92	81	66	48
BSP 77-8-B	26	35	152	151	147	139	129	118	108	98	85	68	48
BSP 77-8	30	40	160	160	156	147	137	126	116	105	93	76	55
BSP 77-9	30	40	179	179	174	164	152	140	129	117	103	85	61
BSP 77-10	37	50	199	199	194	184	171	157	145	132	117	96	69
BSP 77-11	37	50	218	218	212	201	186	172	158	144	127	104	74
BSP 77-12	45	60	242	243	237	225	209	193	178	163	145	120	88
BSP 77-13	55	75	264	264	258	245	228	211	195	178	159	132	98
BSP 77-14	55	75	283	284	277	263	245	226	209	191	170	141	104
BSP 77-15	55	75	303	303	296	281	262	242	223	204	181	150	110
BSP 77-16	63	85	324	325	317	301	281	259	239	219	195	162	119
BSP 77-17	63	85	343	344	336	319	297	274	253	232	206	171	126
BSP 77-18	63	85	363	363	355	337	314	290	267	244	217	180	132
BSP 77-19	75	100	383	384	376	357	332	307	283	259	230	191	140
BSP 77-20	75	100	402	404	395	375	349	322	297	271	241	200	146
BSP 77-21	75	100	422	424	415	394	366	338	312	285	253	210	153
BSP 77-22	93	125	442	444	435	413	384	354	327	298	265	220	161

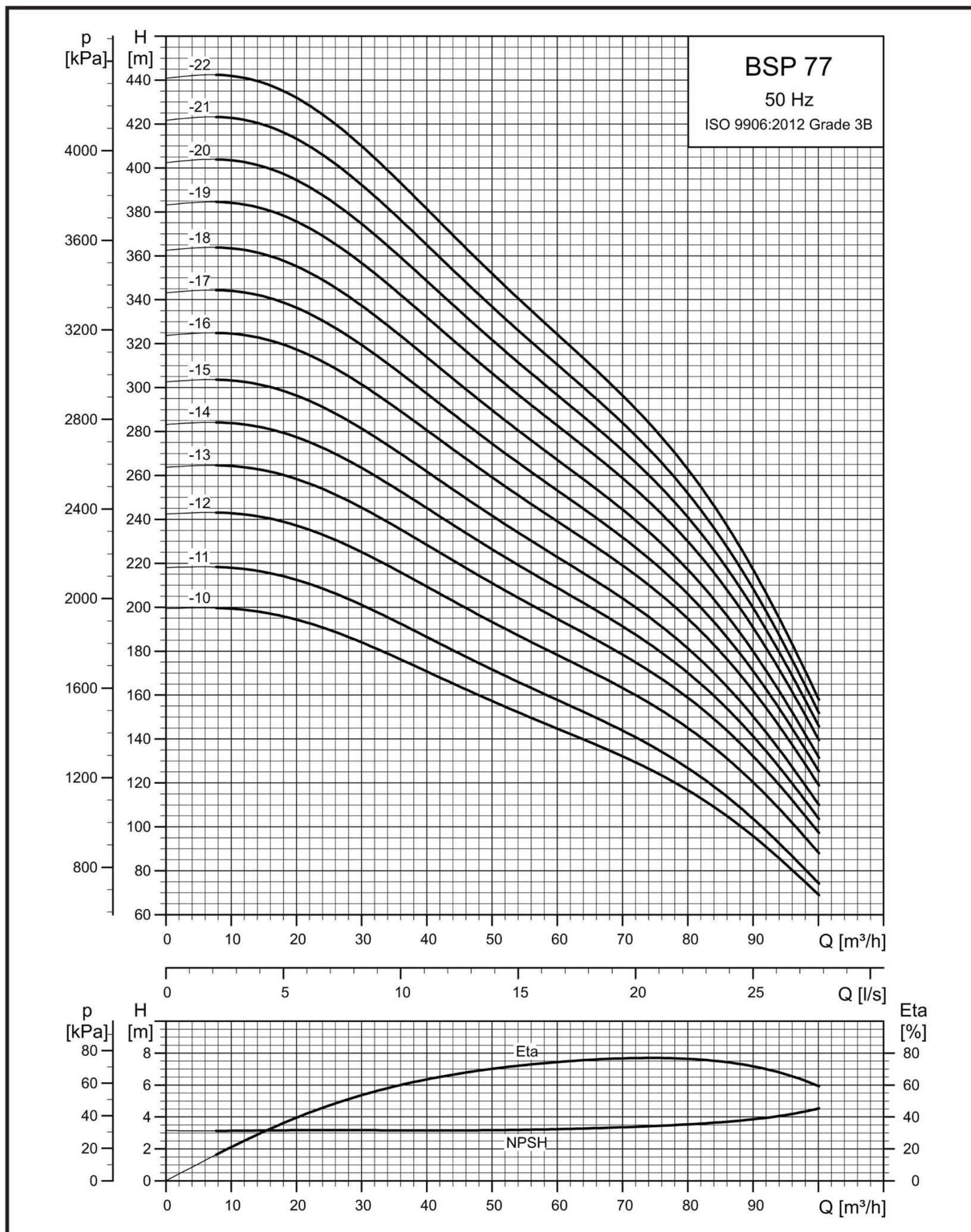
SUBMERSIBLE PUMP PERFORMANCE CURVE

3.11 BSP 77 - Performance Curve



SUBMERSIBLE PUMP PERFORMANCE CURVE

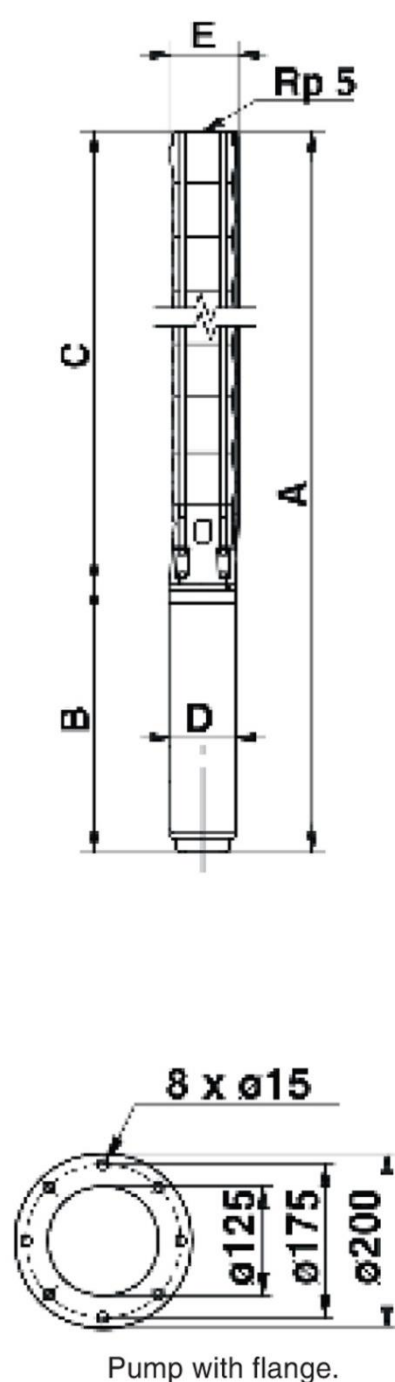
BSP 77 - Performance Curve



SUBMERSIBLE PUMP TECHNICAL DATA

BSP 77 - Technical Data

Dimensions and Weights



Pump type	Motor		Dimensions [mm]										Net weight [kg]
	Type	Power [kW]	Rp 5 connection				5" flange				B	D	
			A	C	E*	E**	A	C	E*	E**			
BSP 77-1	BSF 6	5.5	1170	626	178	186	1170	626	200	200	544	138	55
BSP 77-2-B	BSF 6	5.5	1298	754	178	186	1298	754	200	200	544	138	59
BSP 77-2	BSF 6	7.5	1328	754	178	186	1328	754	200	200	574	138	63
BSP 77-3-B	BSF 6	9.2	1486	882	178	186	1486	882	200	200	604	138	72
BSP 77-3	BSF 6	11	1516	882	178	186	1516	882	200	200	634	138	75
BSP 77-4-B	BSF 6	13	1674	1010	178	186	1674	1010	200	200	664	138	82
BSP 77-4	BSF 6	15	1709	1010	178	186	1709	1010	200	200	699	138	86
BSP 77-5	BSF 6	18.5	1892	1138	178	186	1892	1138	200	200	754	138	95
BSP 77-6	BSF 6	22	2080	1266	178	186	2080	1266	200	200	814	138	105
BSP 77-7	BSF 6	26	2268	1394	178	186	2268	1394	200	200	874	138	114
BSP 77-8-B	BSF 6	26	2396	1522	178	186	2396	1522	200	200	874	138	118
BSP 77-8	BSF 6	30	2466	1522	178	186	2466	1522	200	200	944	138	126
BSP 77-9	BSF 6	30	2594	1650	178	186	2594	1650	200	200	944	138	129
BSP 77-10	BSF 6	37	3090	1778	178	186	3090	1778	200	200	1312	143	176
BSP 77-11	BSF 6	37	3218	1906	178	186	3218	1906	200	200	1312	143	179
BSP 77-12	BMCI 8	45	3304	2034	200	204	3304	2034	209	209	1270	192	240
BSP 77-13	BMCI 8	55	3512	2162	200	204	3512	2162	209	209	1350	192	259
BSP 77-14	BMCI 8	55	3640	2290	200	204	3640	2290	209	209	1350	192	263
BSP 77-15	BMCI 8	55	3768	2418	200	204					1350	192	266
BSP 77-16	BMCI 8	63	4036	2546	200	204					1490	192	296
BSP 77-17	BMCI 8	63	4164	2674	200	204					1490	192	300
BSP 77-18	BMCI 8	63	4292	2802	200	204					1490	192	304
BSP 77-19	BMCI 8	75	4520	2930	200	204					1590	192	334
BSP 77-20	BMCI 8	75	4648	3058	200	204					1590	192	338
BSP 77-21	BMCI 8	75	4776	3186	200	202					1590	192	342
BSP 77-22	BMCI 8	92	5144	3314	200	202					1830	192	391

*Maximum diameter of pump with one motor cable.

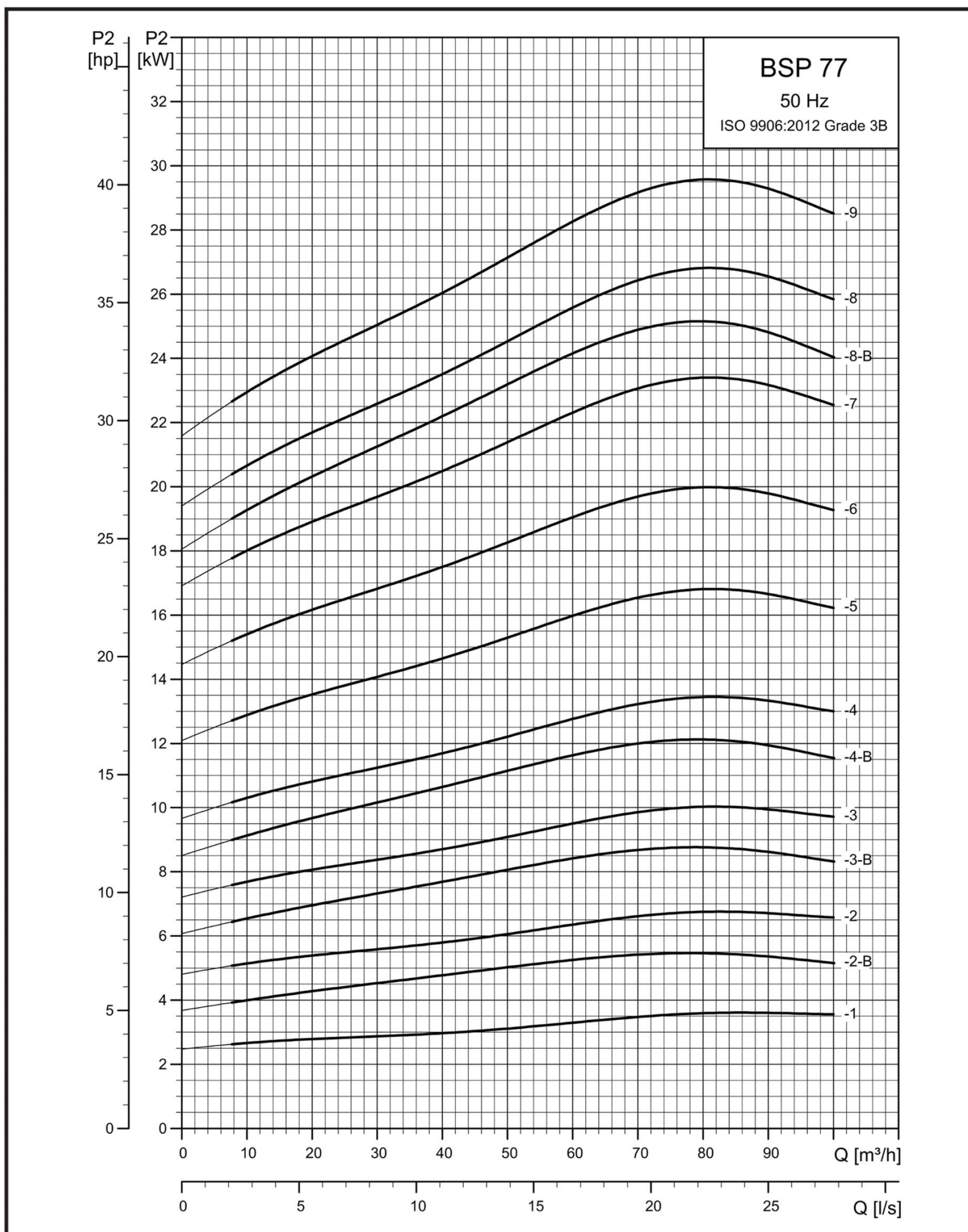
** Maximum diameter of pump with two motor cables.

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

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

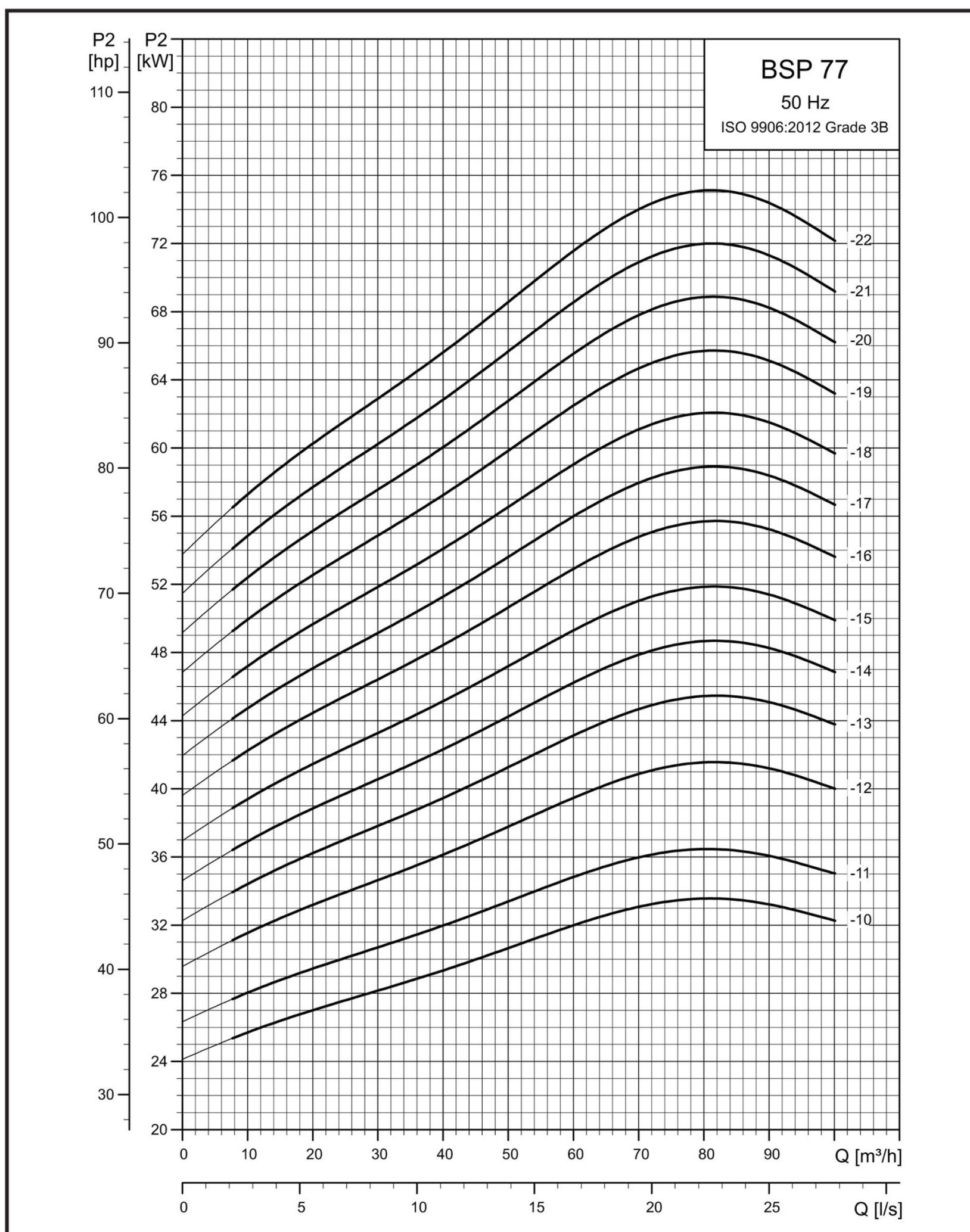
SUBMERSIBLE PUMP POWER CURVE

BSP 77 - Power Curve



SUBMERSIBLE PUMP POWER CURVE

BSP 77 - Power Curve

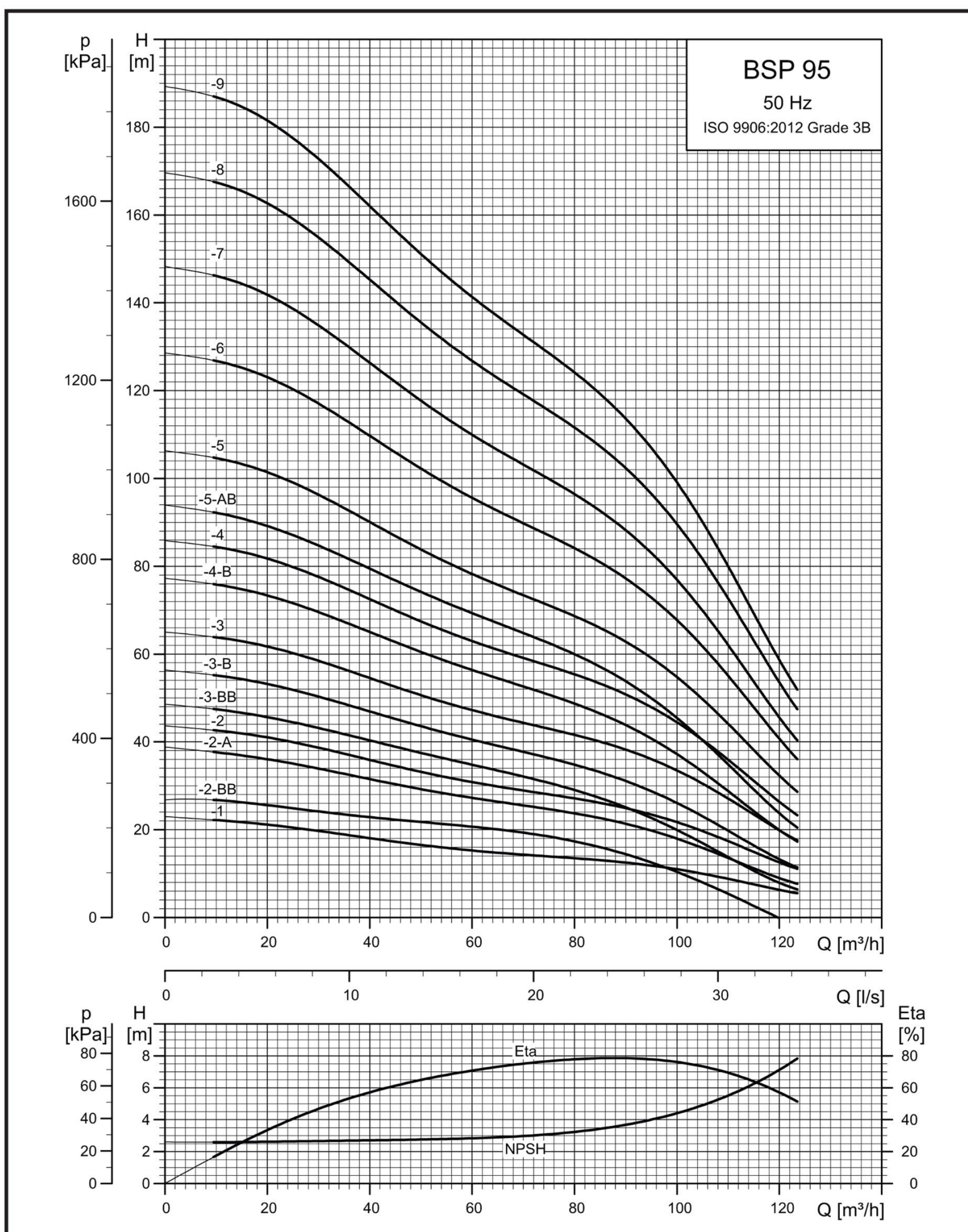


SUBMERSIBLE PUMP PERFORMANCE CHART

BORANA PUMPS PERFORMANCE CHART															
BSP-95		DISCHARGE (Q)													
		m3/h	0	10	20	30	40	50	60	70	80	90	100	110	120
		l/min.	0	167	333	500	667	833	1000	1167	1333	1500	1667	1833	2000
MODEL	MOTOR RATING		TOTAL HEAD IN (m)												
	[kW]	[HP]													
BSP 95-1	5.5	7.5	23	22	21	20	18	17	15	14	13	13	11	9	6
BSP 95-2-BB	5.5	7.5	27	27	26	24	23	22	21	19	17	14	10	5	0
BSP 95-2-A	7.5	10	39	38	36	34	32	29	27	26	24	21	18	14	9
BSP 95-2	9.3	12.5	44	43	41	39	36	33	31	29	27	25	22	17	13
BSP 95-3-BB	9.3	12.5	49	47	46	43	40	37	35	32	29	25	20	14	8
BSP 95-3-B	11	15	56	55	53	50	47	44	41	38	35	31	26	20	13
BSP 95-3	13	17.5	65	64	62	58	55	51	47	44	42	38	33	27	20
BSP 95-4-B	15	20	77	76	73	70	65	60	56	53	49	44	37	29	20
BSP 95-4	18.5	25	86	84	82	78	73	67	63	59	55	51	44	36	26
BSP 95-5-AB	18.5	25	94	92	89	85	79	74	69	65	60	54	45	35	24
BSP 95-5	22	30	106	105	101	96	90	84	78	73	69	63	55	44	32
BSP 95-6	26	35	129	127	123	117	110	102	96	90	84	77	68	55	41
BSP 95-7	30	40	148	146	142	135	126	118	110	103	96	88	77	62	46
BSP 95-8	37	50	170	167	163	155	145	136	127	119	112	102	90	73	54
BSP 95-9	37	50	189	187	182	173	162	151	141	133	124	114	99	80	59
BSP 95-10	45	60	214	212	206	197	185	173	162	152	143	132	116	95	71
BSP 95-11	55	75	237	234	228	217	205	191	179	169	158	146	129	106	79
BSP 95-12	55	75	257	254	248	236	222	208	195	183	172	158	140	115	86
BSP 95-13	55	75	278	275	267	255	240	224	210	198	185	170	150	123	92
BSP 95-14	63	85	300	297	289	276	259	243	227	214	201	185	163	134	100
BSP 95-15	75	100	321	318	310	296	278	260	244	230	215	198	175	144	107
BSP 95-16	75	100	342	338	329	314	296	277	259	244	229	211	186	152	114
BSP 95-17	75	100	362	358	349	333	313	293	275	258	242	223	196	160	120
BSP 95-18	93	125	382	378	368	352	331	309	290	272	255	235	206	169	125
BSP 95-19	93	125	402	398	388	370	348	325	305	287	269	247	216	177	131
BSP 95-20	93	125	423	418	407	388	365	341	320	301	281	258	226	184	137

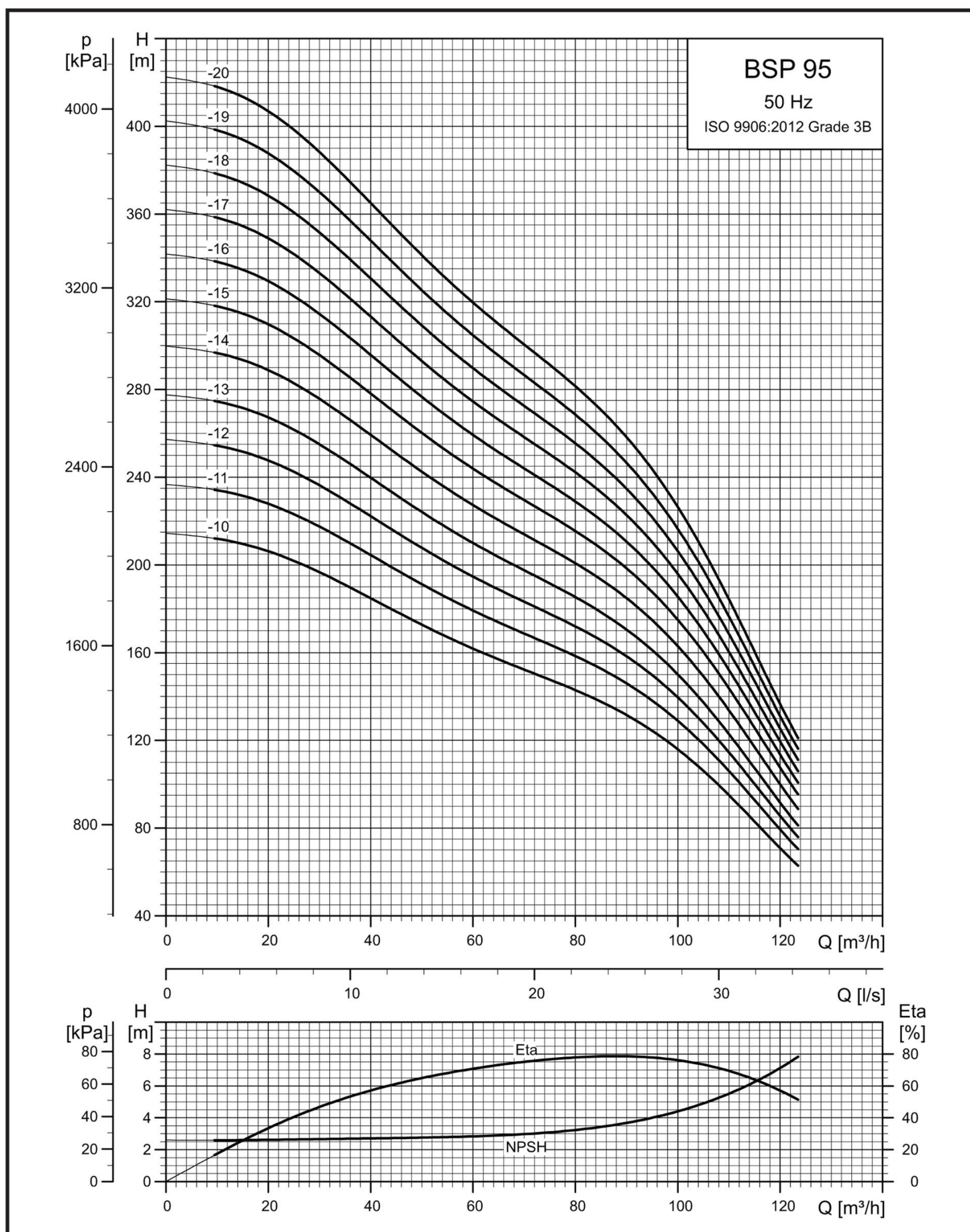
SUBMERSIBLE PUMP PERFORMANCE CURVE

3.12 BSP 95 - Performance Curve



SUBMERSIBLE PUMP PERFORMANCE CURVE

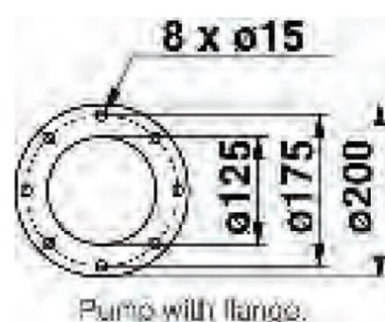
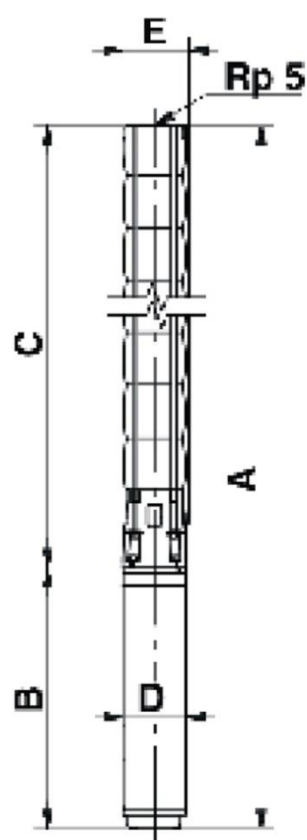
BSP 95 - Performance Curve



SUBMERSIBLE PUMP TECHNICAL DATA

BSP 95 - Technical Data

Dimensions and Weights



Pump type	Motor		Dimensions [mm]										Net weight [kg]
	Type	Power [kW]	Rp 5 connection				5" flange				B	D	
			A	C	E*	E**	A	C	E*	E**			
BSP 95-1	BSF 6	5.5	1170	626	178	186	1170	626	200	200	544	138	55
BSP 95-2-BB	BSF 6	5.5	1298	754	178	186	1298	754	200	200	544	138	72
BSP 95-2-A	BSF 6	7.5	1328	754	178	186	1328	754	200	200	574	138	63
BSP 95-2	BSF 6	9.2	1358	754	178	186	1358	754	200	200	604	138	68
BSP 95-3-BB	BSF 6	9.2	1486	882	178	186	1486	882	200	200	604	138	72
BSP 95-3-B	BSF 6	11	1516	882	178	186	1516	882	200	200	634	138	75
BSP 95-3	BSF 6	13	1546	882	178	186	1546	882	200	200	664	138	78
BSP 95-4-B	BSF 6	15	1709	1010	178	186	1709	1010	200	200	699	138	86
BSP 95-4	BSF 6	18.5	1764	1010	178	186	1764	1010	200	200	754	138	91
BSP 95-5-AB	BSF 6	18.5	1892	1138	178	186	1892	1138	200	200	754	138	95
BSP 95-5	BSF 6	22	1952	1138	178	186	1952	1138	200	200	814	138	101
BSP 95-6	BSF 6	26	2140	1266	178	186	2140	1266	200	200	874	138	110
BSP 95-7	BSF 6	30	2338	1394	178	186	2338	1394	200	200	944	138	122
BSP 95-8	BSF 6	37	2834	1522	178	186	2834	1522	200	200	1312	143	168
BSP 95-9	BSF 6	37	2962	1650	178	186	2962	1650	200	200	1312	143	172
BSP 95-10	BMC I 8	45	3048	1778	196	204	3048	1778	205	205	1270	192	233
BSP 95-11	BMC I 8	55	3256	1906	196	204	3256	1906	205	205	1350	192	251
BSP 95-12	BMC I 8	55	3384	2034	196	204	3384	2034	205	205	1350	192	255
BSP 95-13	BMC I 8	55	3512	2162	196	204	3512	2162	205	205	1350	192	259
BSP 95-14	BMC I 8	63	3780	2290	196	204	3780	2290	205	205	1490	192	289
BSP 95-15	BMC I 8	75	4008	2418	196	204					1590	192	311
BSP 95-16	BMC I 8	75	4136	2546	196	204					1590	192	315
BSP 95-17	BMC I 8	75	4264	2674	196	204					1590	192	319
BSP 95-18	BMC I 8	92	4632	2802	196	204					1830	192	376
BSP 95-19	BMC I 8	92	4760	2930	196	204					1830	192	380
BSP 95-20	BMC I 8	92	4888	3058	196	204					1830	192	384

*Maximum diameter of pump with one motor cable.

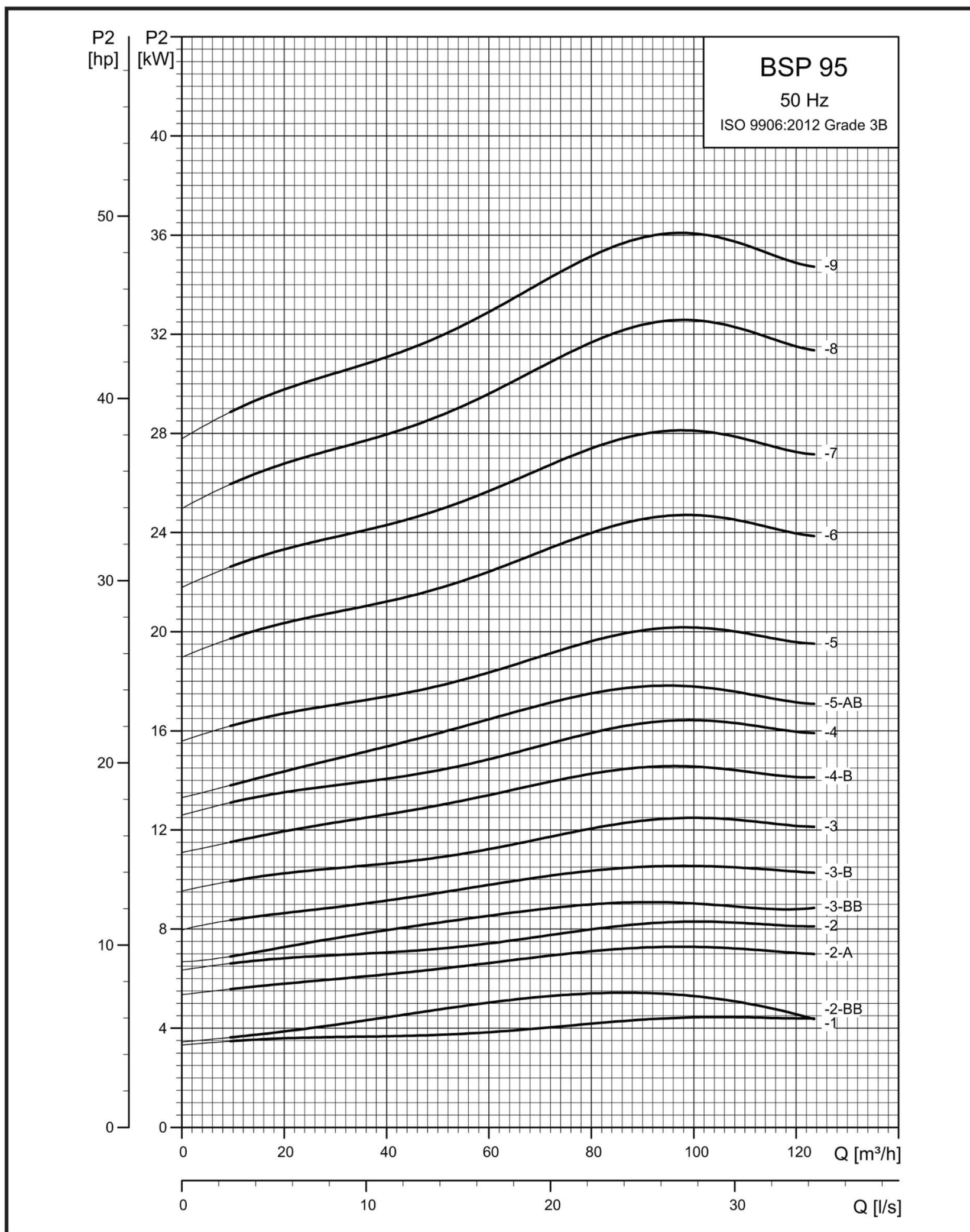
** Maximum diameter of pump with two motor cables.

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

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

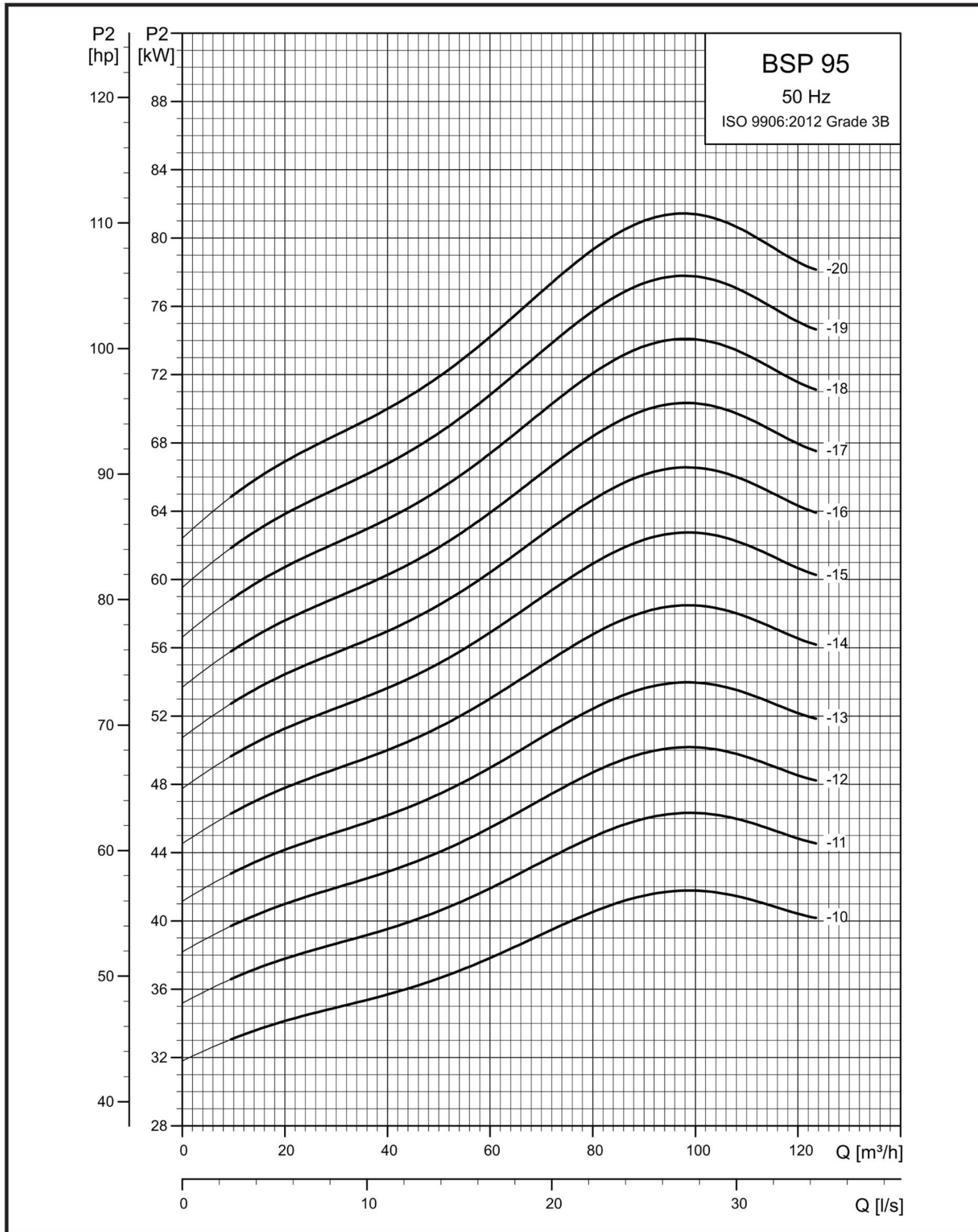
SUBMERSIBLE PUMP POWER CURVE

BSP 95 - Power Curve



SUBMERSIBLE PUMP POWER CURVE

BSP 95 - Power Curve



Important Note:

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

Website: www.boranapumps.com

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SUBMERSIBLE PUMP PERFORMANCE CHART

BORANA PUMP PERFORMANCE CHART										
BSP-293-10mm	DISCHARGE (Q)									
	m3/h	0	35	46	52	55	60	62	80	
	l/min.	0	293	442	523	580	660	730	1130	
MODEL	MOTOR RATING		TOTAL HEAD IN (m)							
	[kW]	[HP]								
BSP 293-10-3	11.03	15	60	54	50	47	43	39	35	0.7
BSP 293-10-4	12.87	17.5	79	71	65	63	57	51	46	1
BSP 293-10-8	15	20	158	142	131	125	114	102	91	2
BSP 293-10-10	18.75	25	198	178	164	157	148	128	114	3
BSP 293-10-12	22.5	30	238	214	197	188	171	154	137	4
BSP 293-10-13	26.25	35	258	232	213	204	185	167	148	4
BSP 293-10-14	30	40	278	250	230	220	200	180	160	5
BSP 293-10-18	37.5	50	357	321	295	282	257	231	205	6
BSP 293-10-22	45	60	436	392	361	345	314	282	251	7

SUBMERSIBLE PUMP PERFORMANCE CHART

BORANA PUMP PERFORMANCE CHART										
BSP-293-12mm	DISCHARGE (Q)									
	m3/h	0	35	46	52	55	60	62	80	
	l/min.	0	112	272	494	622	725	814	1208	
MODEL	MOTOR RATING		TOTAL HEAD IN (m)							
	[kW]	[HP]								
BSP 293-12-6	15	20	120	114	109	99	90	79	69	2
BSP 293-12-8	18.75	25	160	153	146	133	120	106	93	3
BSP 293-12-10	22.5	30	200	191	183	166	150	133	116	4
BSP 293-12-11	26.25	35	220	210	201	183	165	146	128	4
BSP 293-12-12	30	40	240	230	220	200	180	160	140	5
BSP 293-12-16	37.5	50	320	306	293	266	240	213	186	6
BSP 293-12-20	45	60	400	383	366	333	300	266	233	8

SUBMERSIBLE PUMP PERFORMANCE CHART

BORANA PUMP PERFORMANCE CHART										
BSP-293-14mm	DISCHARGE (Q)									
	m3/h	0	35	46	52	55	60	62	80	
	l/min.	0	580	760	860	920	990	1030	1330	
MODEL	MOTOR RATING		TOTAL HEAD IN (m)							
	[kW]	[HP]								
BSP 293-14-3	11.03	15	64	56	50	44	41	35	31	6
BSP 293-14-4	12.87	17.5	86	75	66	58	55	46	41	7
BSP 293-14-5	15	20	107	93	83	73	68	58	51	9
BSP 293-14-6	18.75	25	129	112	100	88	82	70	61	111
BSP 293-14-8	22.5	30	171	149	133	117	109	93	82	14
BSP 293-14-9	26.25	35	193	167	149	131	122	104	92	15
BSP 293-14-10	30	40	214	186	166	146	136	116	102	17
BSP 293-14-13	37.5	50	278	242	216	190	177	151	133	21
BSP 293-14-15	45	60	321	279	249	219	204	174	153	24