



EBARA

**6 - 8 BHE(L)
6" - 8" BOREHOLE CENTRIFUGAL PUMPS**

60 Hz



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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316



6" borehole centrifugal pumps for deep wells in AISI 304 (6BHE) and AISI 316 (6BHEL) stainless steel.

APPLICATIONS

- Water supply and pressure boosting
- Irrigation
- Industrial cooling and processing
- Fountains and fire-fighting plants

TECHNICAL DETAILS

- High resistance to corrosion
- Reliable
- Compact
- Suitable for horizontal operation

PUMP TECHNICAL DATA

- Maximum working pressure: 70 bar
 - Maximum immersion:
 - 350 m (water filled motor)
 - 150 m (oil filled motor)
 - Maximum sand content: 100 gr/m³
 - Temperature of the liquid: from -5°C to +60°C
 - 4" motor adapter
 - Rp 2½ discharge connection for 6BHE(L) 13-20, Rp 3" for 6BHE(L) 32-48-64
 - MEI > 0,1
- For further information please see our Data Book on the web site www.ebaraurope.com

The pump and the motor are supplied separately.

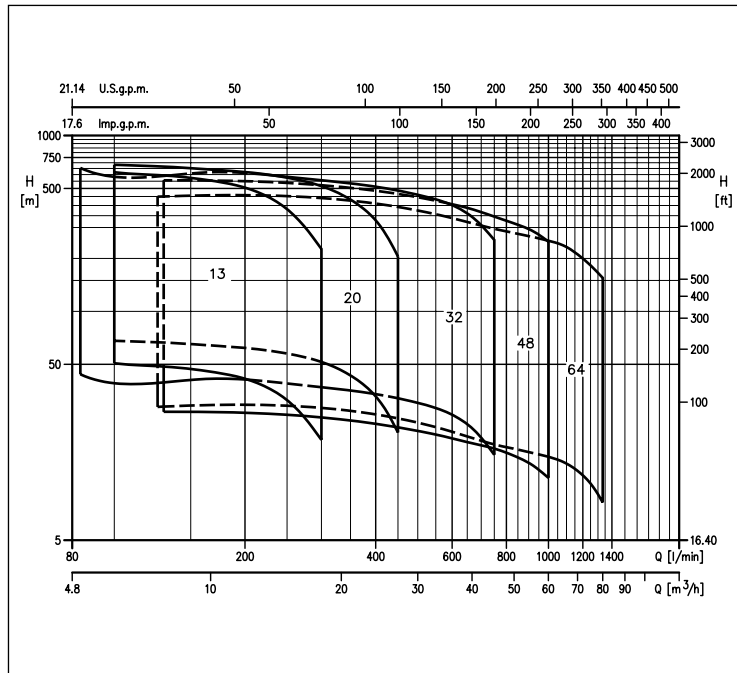
MOTOR TECHNICAL DATA

- 2 poles oil filled motors (OY) and water filled motors (WY),
- Protection degree IP58 (OY), IP68 (WY)
- Class of insulation F (4" - 6" OY version)
(6" - 8" WY version)
B (4" WY version)
- 380/460V(±10%) 60Hz three phase voltage (OY)
460V±10%+6%) 60Hz three phase voltage (WY)
- For cables dimensioning please see page 34 or our Data Book on the web site www.ebaraurope.com

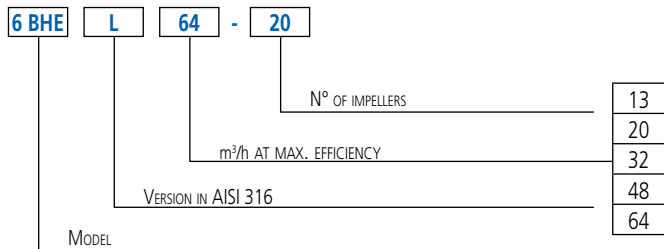
MATERIALS

- Discharge casing, impeller, stages, bracket and diffuser in AISI 304 (6BHE) and AISI 316 (6BHEL)
- Shaft in AISI 431 (6BHE) and AISI 316 - AISI 329 (6BHEL)

PERFORMANCE RANGE (according to ISO 9906 Attachment A)



IDENTIFICATION CODE

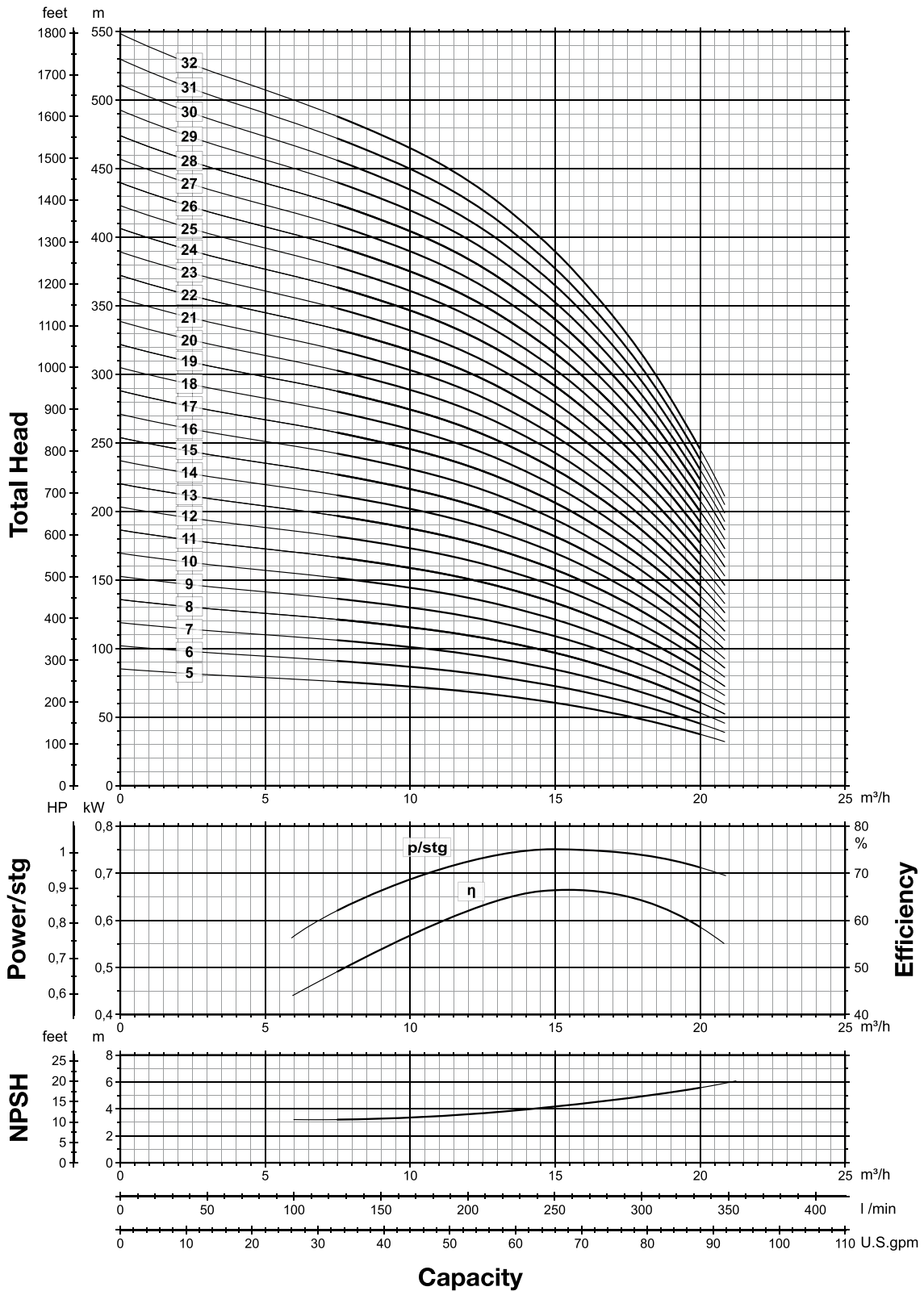




6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS
in AISI 304 and AISI 316

PERFORMANCE CURVES 6BHE(L) 13 series (according to ISO 9906 Attachment A)



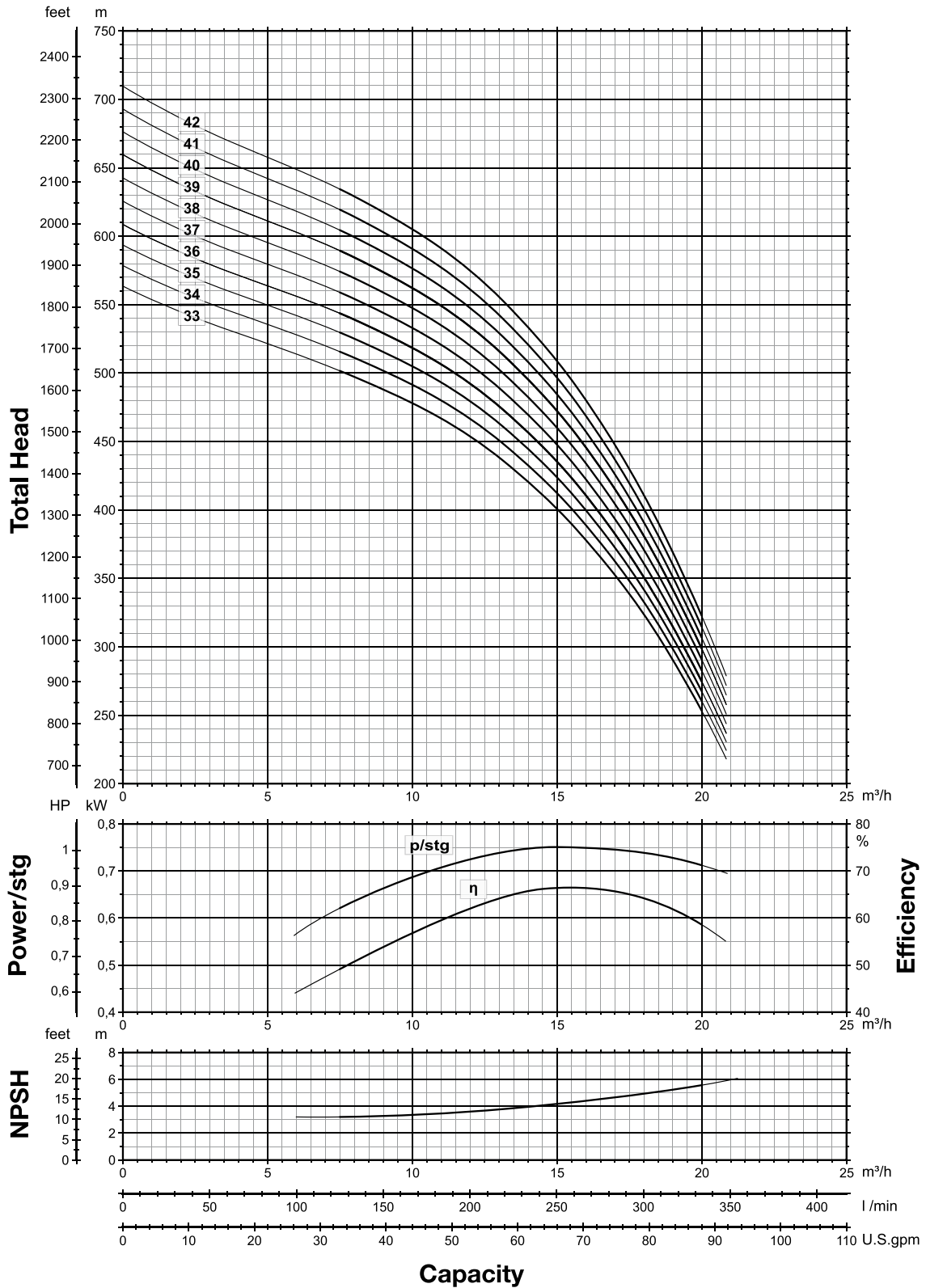
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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS
in AISI 304 and AISI 316

PERFORMANCE CURVES 6BHE(L) 13 series (according to ISO 9906 Attachment A)



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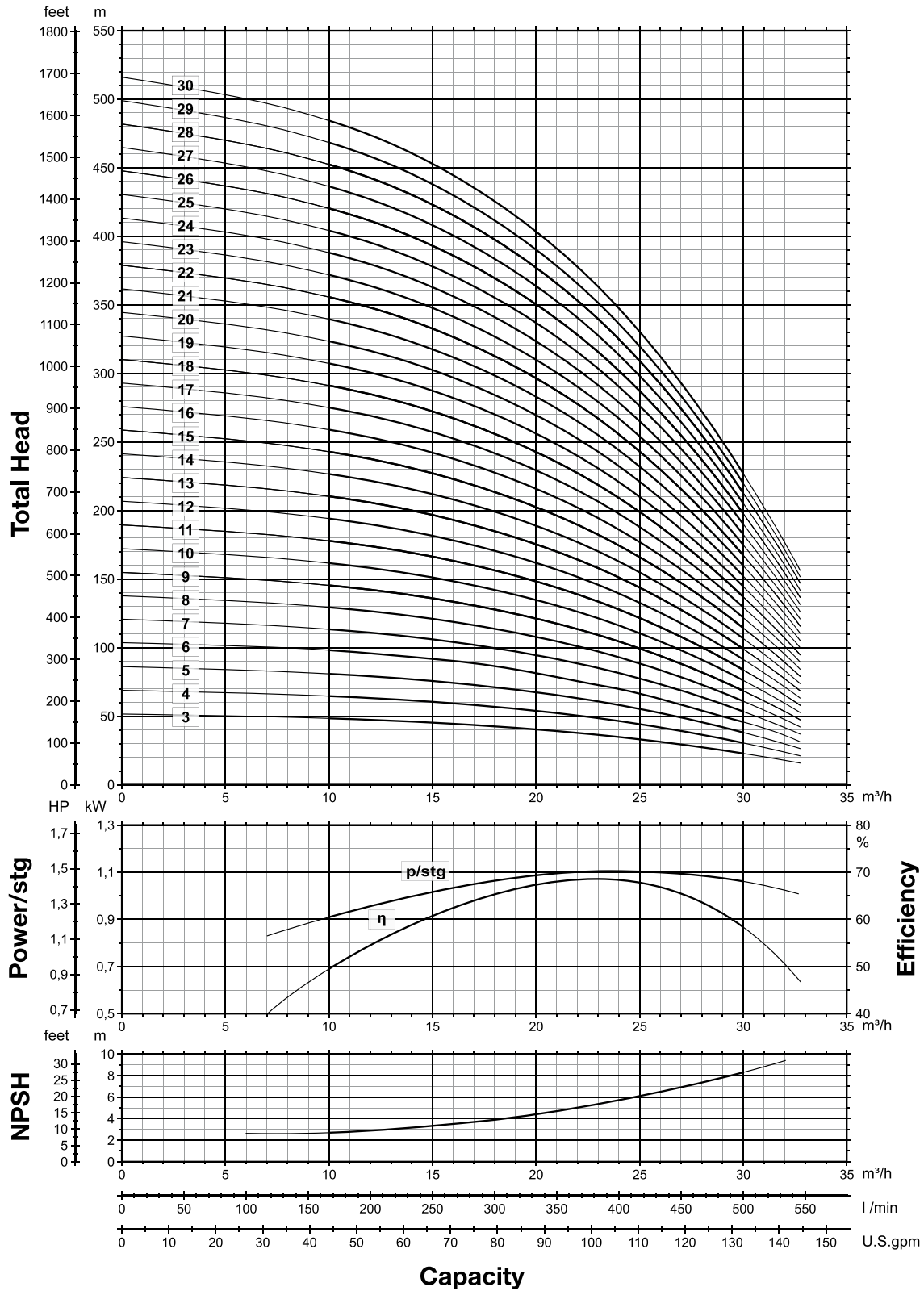


6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

PERFORMANCE CURVES 6BHE(L) 20 series (according to ISO 9906 Attachment A)



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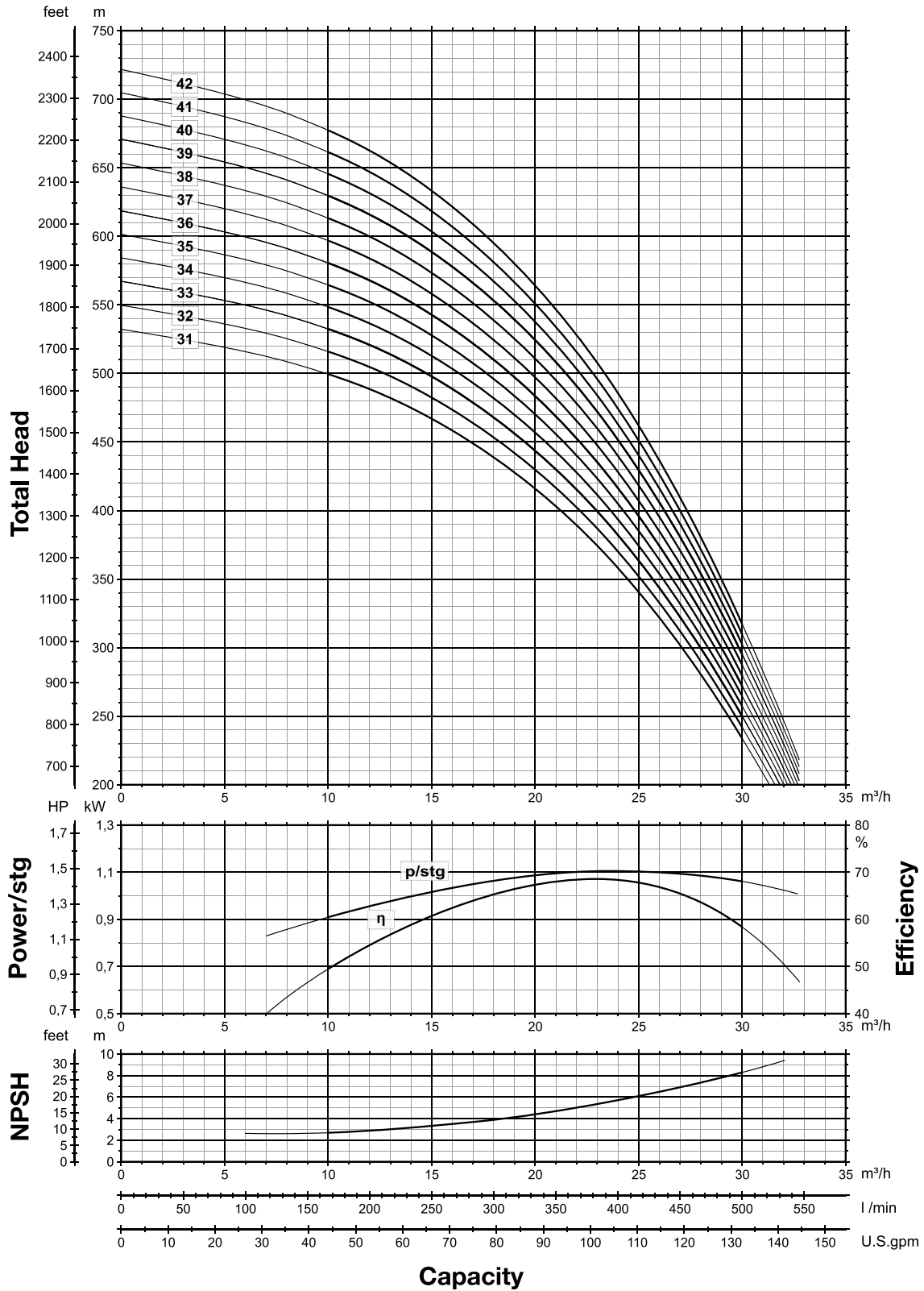


6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

PERFORMANCE CURVES 6BHE(L) 20 series (according to ISO 9906 Attachment A)



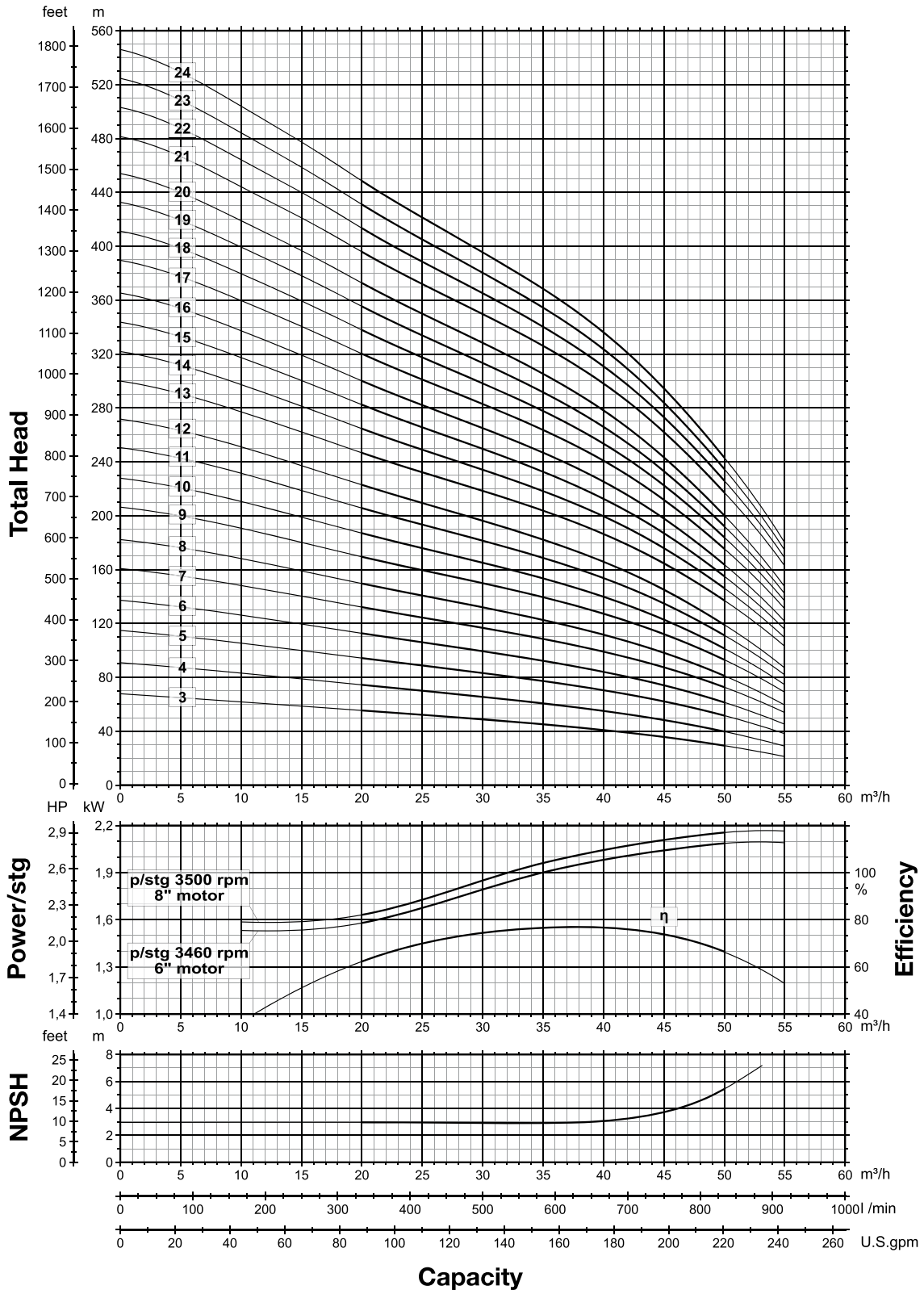
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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS
in AISI 304 and AISI 316

PERFORMANCE CURVES 6BHE(L) 32 series (according to ISO 9906 Attachment A)



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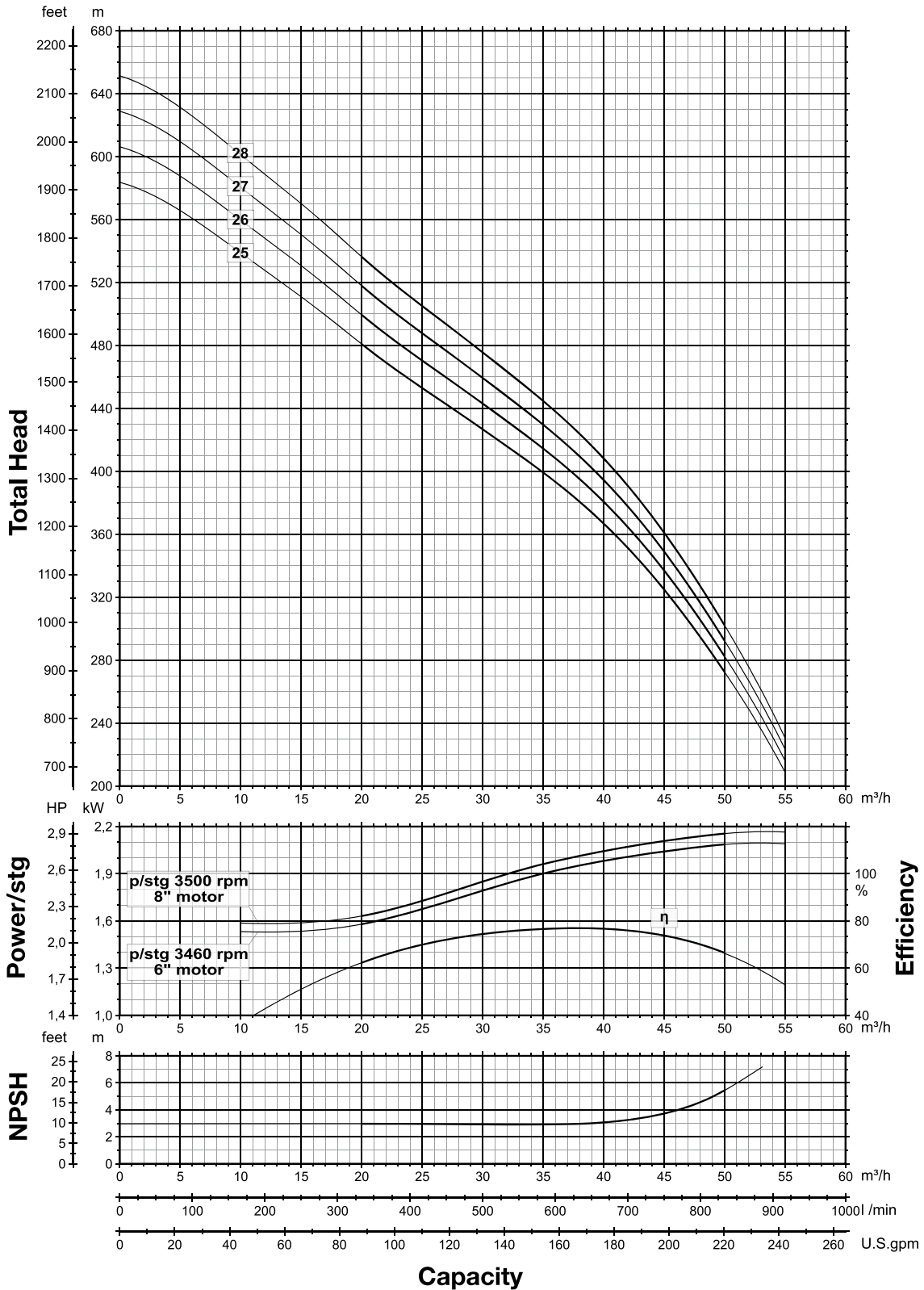


6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

PERFORMANCE CURVES 6BHE(L) 32 series (according to ISO 9906 Attachment A)



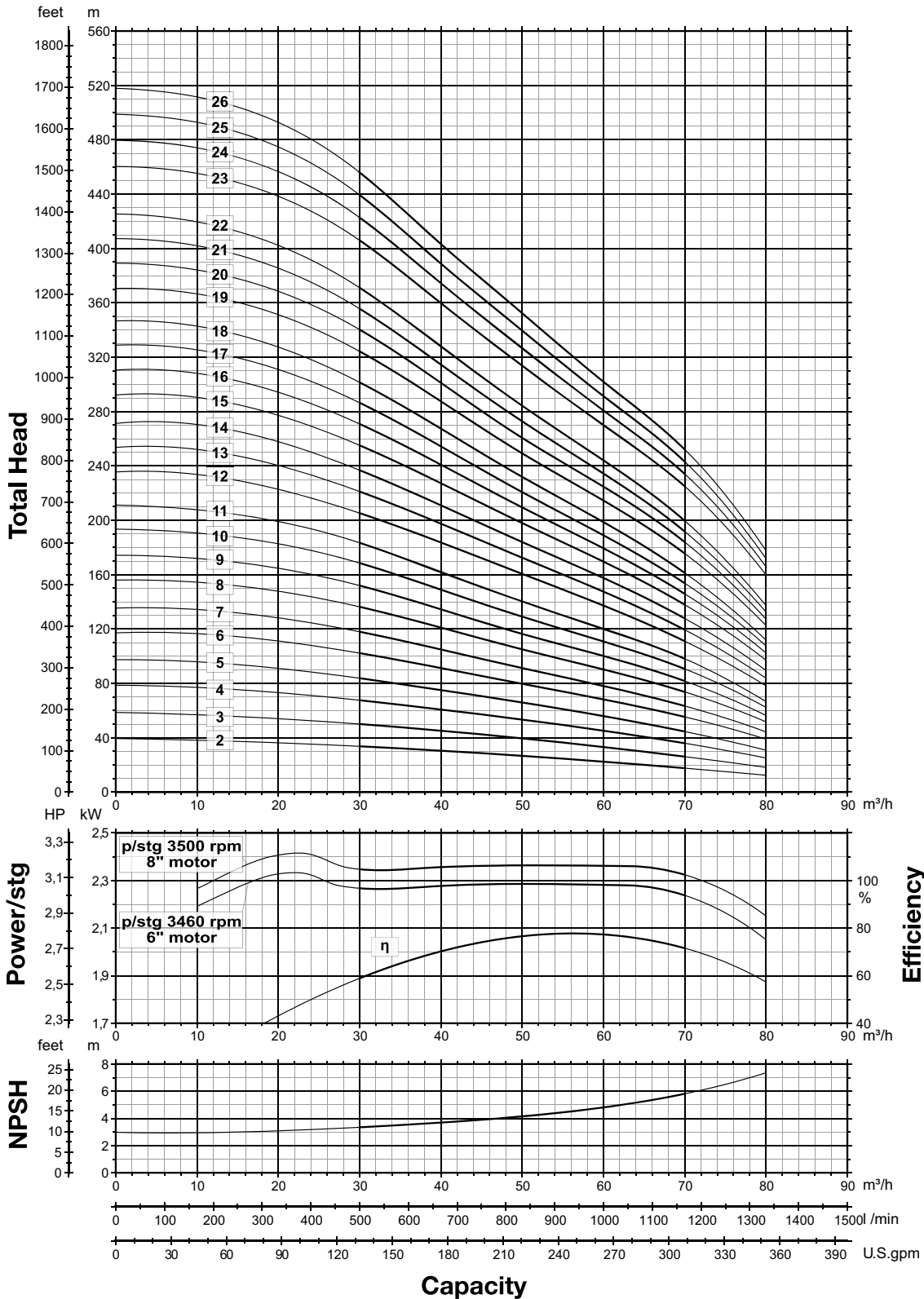
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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS
in AISI 304 and AISI 316

PERFORMANCE CURVES 6BHE(L) 48 series (according to ISO 9906 Attachment A)



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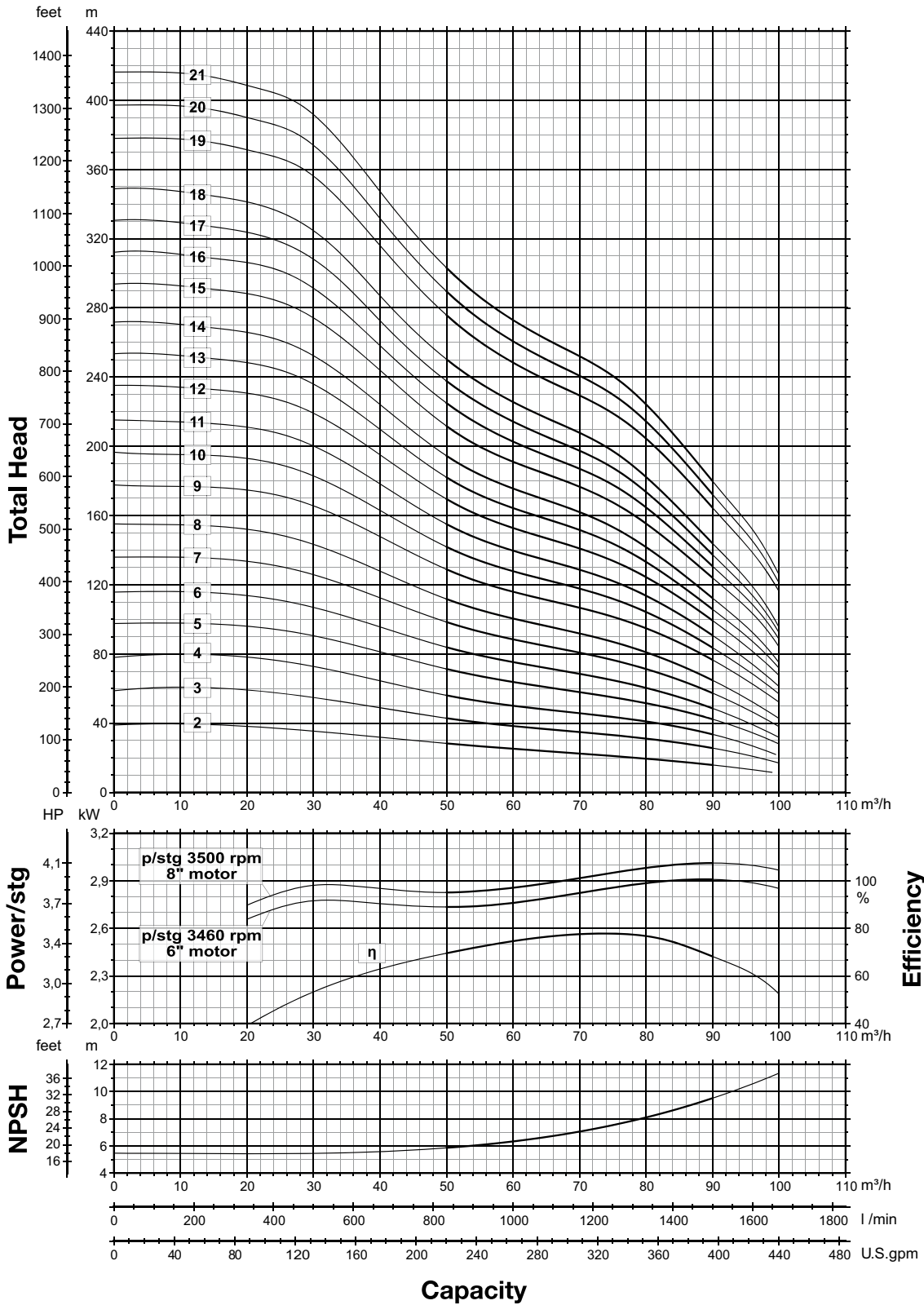


6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

PERFORMANCE CURVES 6BHE(L) 64 series (according to ISO 9906 Attachment A)



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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

PERFORMANCE TABLE 6BHE(L) 13

Model	Motor size	P ₂		Q=Flow rate									
		[HP]	[kW]	l/min m ³ /h	33,5 2	66,5 4	100 6	133,5 8	166,5 10	200 12	233,5 14	266,5 16	300 18
				H=Head [m]									
6BHE(L) 13-5	4"	5	3,7	83,0	80,5	78,0	75,0	72,0	69,0	63,3	56,5	47,5	30,0
6BHE(L) 13-6		7,5	5,5	98,5	95,5	92,5	90,0	86,5	82,5	76,5	67,5	58,5	37,5
6BHE(L) 13-7		7,5	5,5	115,0	112,0	108,0	105,0	100,5	96,5	89,5	79,0	68,5	44,0
6BHE(L) 13-8		7,5	5,5	131,1	127,2	123,3	120,0	115,0	110,0	102,0	90,0	78,0	50,0
6BHE(L) 13-9		10	7,5	147,5	143,0	138,5	135,0	129,5	123,0	114,0	103,0	88,0	58,0
6BHE(L) 13-10		10	7,5	164,5	159,0	154,0	150,0	144,0	136,5	126,5	114,5	97,5	64,5
6BHE(L) 13-11		10	7,5	180,0	175,0	170,0	165,0	159,0	150,0	140,0	125	108,0	70,0
6BHE(L) 13-5	6"	5,5	4	83,0	80,5	78,0	75,0	72,0	69,0	63,3	56,5	47,5	30,0
6BHE(L) 13-6		7,5	5,5	98,5	95,5	92,5	90,0	86,5	82,5	76,5	67,5	58,5	37,5
6BHE(L) 13-7		7,5	5,5	115,0	112,0	108,0	105,0	100,5	96,5	89,5	79,0	68,5	44,0
6BHE(L) 13-8		7,5	5,5	131,1	127,2	123,3	120,0	115,0	110,0	102,0	90,0	78,0	50,0
6BHE(L) 13-9		10	7,5	147,5	143,0	138,5	135,0	129,5	123,0	114,0	103,0	88,0	58,0
6BHE(L) 13-10		10	7,5	164,5	159,0	154,0	150,0	144,0	136,5	126,5	114,5	97,5	64,5
6BHE(L) 13-11		12,5	9,3	197,5	191,0	185,0	180,0	173,0	164,0	152,0	137,5	117,0	77,5
6BHE(L) 13-12		12,5	9,3	213,0	206,5	200,0	195,0	188,0	178,0	165,0	149,0	126,5	85,0
6BHE(L) 13-14		15	11	230,0	223,0	216,0	210,0	202,0	191,0	177,0	160,5	136,5	90,5
6BHE(L) 13-15		15	11	247,0	239,0	232,0	223,5	216,0	205,0	190,0	170,0	146,5	96,0
6BHE(L) 13-16		15	11	263,0	255,0	246,5	240,0	230,5	218,5	202,5	183,5	156,0	103,5
6BHE(L) 13-17		15	11	279,5	270,5	262,0	255,0	245,0	232,0	215,0	195,0	166,0	110,0
6BHE(L) 13-18		20	15	295,0	286,0	277,5	270,0	259,5	246,0	228,0	205,5	177,0	117,0
6BHE(L) 13-19		20	15	312,0	302,5	293,5	285,0	275,0	260,0	240,0	216,5	188,5	123,5
6BHE(L) 13-20		20	15	327,5	318,0	308,5	300,0	288,0	273,5	253,5	228,5	196,5	130,0
6BHE(L) 13-21		20	15	344,0	334,0	324,0	315,0	302,5	287,5	266,5	240,0	206,5	136,5
6BHE(L) 13-22		20	15	360,5	350,0	340,0	330,0	316,5	300,0	280,0	250,0	215,0	142,0
6BHE(L) 13-23		25	18,5	377,0	366,0	355,0	345,0	331,5	314,5	291,5	263,0	226,0	149,5
6BHE(L) 13-24		25	18,5	393,5	381,5	370,0	360,0	345,0	329,0	305,0	274,0	235,0	156,0
6BHE(L) 13-25		25	18,5	409,5	397,5	385,5	375,0	360,5	342,0	317,0	285,5	245,5	162,5
6BHE(L) 13-26		25	18,5	427,0	413,5	400,0	390,0	375,0	355,0	330,0	296,5	254,0	169,0
6BHE(L) 13-27		25	18,5	442,0	429,5	416,5	405,0	389,0	369,5	342,5	308,5	265,0	175,5
6BHE(L) 13-28		25	18,5	460,0	446,0	432,0	420,0	403,5	383,0	355,0	320,0	275,0	182,0
6BHE(L) 13-29		30	22	475,0	461,5	447,5	435,0	418,0	396,5	367,5	331,5	285,0	188,5
6BHE(L) 13-30		30	22	491,5	477,0	463,0	450,0	432,5	410,5	380,5	343,0	294,5	195,0
6BHE(L) 13-31		30	22	507,5	493,0	478,5	465,0	446,5	424,0	393,0	354,5	304,5	201,5
6BHE(L) 13-32		30	22	524,5	509,0	493,5	480,0	461,0	437,5	405,5	365,5	314,5	208,0
6BHE(L) 13-33		40	30	540,0	525,0	509,0	495,0	475,5	451,5	418,5	377,0	324,0	214,5
6BHE(L) 13-34		40	30	556,5	540,5	524,5	510,0	490,0	465,0	431,0	388,5	334,0	221,0
6BHE(L) 13-35		40	30	573,0	556,5	540,0	525,0	504,5	479,0	444,0	400,0	344,0	227,5
6BHE(L) 13-36		40	30	590,0	572,5	555,5	540,0	519,0	492,5	456,5	411,5	353,5	234,0
6BHE(L) 13-37		40	30	606,0	588,5	571,0	555,0	533,0	506,0	469,0	423,0	363,5	240,5
6BHE(L) 13-38		40	30	622,5	604,5	586,5	570,0	547,5	520,0	482,0	434,5	373,0	247,0
6BHE(L) 13-39		40	30	639,0	620,0	601,5	585,0	562,0	533,5	494,5	445,5	383,0	253,5
6BHE(L) 13-40	40	30	655,5	636,0	617,0	600,0	576,5	547,0	507,0	457,0	393,0	260,0	
6BHE(L) 13-41	40	30	671,5	652,0	632,5	615,0	591,0	561,0	520,0	468,5	402,5	266,5	
6BHE(L) 13-42	40	30	688,0	668,0	648,0	630,0	605,5	574,5	532,5	480,0	412,5	273,0	

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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

PERFORMANCE TABLE 6BHE(L) 20

Model	Motor size	P ₂		Q=Flow rate									
		[HP]	[kW]	l/min m ³ /h	33,5 2	150 9	200 12	250 15	300 18	350 21	400 24	450 27	500 30
				H=Head [m]									
6BHE(L) 20-3	4"	5,5	4	49,5	48,0	46,5	45,0	42,0	38,0	34	29	22	16,5
6BHE(L) 20-4		7,5	5,5	66,5	65,0	63,5	60,0	56,0	52,0	46,5	39	30,5	23
6BHE(L) 20-5		7,5	5,5	83,0	81,0	79,5	75,0	70,0	65,0	58	49	38	29
6BHE(L) 20-6		10	7,5	99,0	97,0	95,0	91,5	85,5	78,0	69,5	59	45,5	35,5
6BHE(L) 20-7		10	7,5	116,5	113,0	110,0	106,0	100,0	90,0	80	69	52	40
6BHE(L) 20-3	6"	5,5	4	49,5	48,0	46,5	45,0	42,0	38,0	34	29	22	16,5
6BHE(L) 20-4		7,5	5,5	66,5	65,0	63,5	60,0	56,0	52,0	46,5	39	30,5	23
6BHE(L) 20-5		7,5	5,5	83,0	81,0	79,5	75,0	70,0	65,0	58	49	38	29
6BHE(L) 20-6		10	7,5	99,0	97,0	95,0	91,5	85,5	78,0	69,5	59	45,5	35,5
6BHE(L) 20-7		10	7,5	116,5	113,0	110,0	106,0	100,0	90,0	80	69	52	40
6BHE(L) 20-8		12,5	9,3	132,0	130,0	127,0	122,0	114,0	104,0	93	79	60,5	47,5
6BHE(L) 20-9		12,5	9,3	149,5	145,0	141,0	135,0	128,0	116,5	104	87	68	52,5
6BHE(L) 20-10		15	11	165,5	162,0	158,5	152,5	142,5	130,0	116	98,5	75,5	59,5
6BHE(L) 20-11		15	11	184,5	179,0	173,5	165,0	156,0	143,5	128	108	83,5	65
6BHE(L) 20-12		20	15	198,5	194,5	190,5	183,0	171,0	156,0	139	118,5	91	71
6BHE(L) 20-13		20	15	217,0	211,0	205,0	196,5	185,0	170,0	150	126,5	99	76,5
6BHE(L) 20-14		20	15	232,0	227,0	222,0	213,5	199,5	182,0	162,5	138	106	83
6BHE(L) 20-15		20	15	248,5	243,0	238,0	228,5	213,5	195,0	174	148	113,5	89
6BHE(L) 20-16		25	18,5	267,5	260,0	252,5	242,0	227,5	208,5	185,5	156,5	120,5	95
6BHE(L) 20-17		25	18,5	284,0	276,5	268,5	257,0	241,5	221,5	197,5	166	128	101
6BHE(L) 20-18		25	18,5	301,5	292,5	283,5	270,0	256,0	235,0	210	175	136,5	106
6BHE(L) 20-19		30	22	317,5	309,0	300,0	287,5	270,0	247,5	220,5	185,5	143	112,5
6BHE(L) 20-20		30	22	334,0	324,5	315,5	302,5	284,5	260,5	232	195,5	150,5	118,5
6BHE(L) 20-21		30	22	351,0	341,5	331,5	317,5	298,5	274,0	244	205	158,5	124,5
6BHE(L) 20-22		30	22	368,5	358,0	348,0	331,0	312,0	286,5	255	215	165	130
6BHE(L) 20-23		40	30	384,0	373,5	363,0	348,0	327,0	300,0	267	224,5	173,5	136,5
6BHE(L) 20-24		40	30	401,5	390,0	379,0	363,0	341,0	313,0	278,5	234,5	181	142,5
6BHE(L) 20-25		40	30	417,5	406,0	394,5	378,0	355,5	326,0	290	244	188,5	148
6BHE(L) 20-26		40	30	435,0	422,5	410,0	393,5	370,0	339,0	300	255	197	152,5
6BHE(L) 20-27		40	30	451,0	438,5	426,0	408,5	384,0	352,0	313,5	263,5	203,5	160
6BHE(L) 20-28		40	30	468,0	455,0	442,0	423,5	398,0	365,0	325	273,5	211	166
6BHE(L) 20-29		40	30	485,0	471,5	458,0	438,5	412,0	378,0	336,5	283,5	218,5	172
6BHE(L) 20-30		40	30	501,5	487,5	473,5	454,0	426,5	391,0	348	293	226	178
6BHE(L) 20-31		50	37	518,0	503,5	489,5	469,0	440,5	404,0	360	303	233,5	184
6BHE(L) 20-32		50	37	534,5	520,0	505,0	484,0	455,0	417,0	371,5	312,5	241	189,5
6BHE(L) 20-33		50	37	551,5	536,0	521,0	499,0	469,0	430,0	383	322,5	248,5	195,5
6BHE(L) 20-34		50	37	568,0	552,0	536,5	514,5	483,5	443,0	394,5	332	256	201,5
6BHE(L) 20-35		50	37	585,0	574,0	552,5	529,5	497,5	456,5	406,5	342	264	207,5
6BHE(L) 20-36	50	37	602,0	585,5	568,5	544,5	511,5	469,5	418	351,5	271,5	213,5	
6BHE(L) 20-37	60	45	618,5	601,0	584,0	559,5	526,0	482,5	429,5	361,5	279	219,5	
6BHE(L) 20-38	60	45	636,0	616,0	600,0	575,0	540,0	495,5	441	371	286,5	225,5	
6BHE(L) 20-39	60	45	652,0	634,0	615,5	590,0	554,5	508,5	452,5	381	294	231	
6BHE(L) 20-40	60	45	669,0	650,0	631,5	605,0	568,5	521,5	464,5	390,5	301,5	237	
6BHE(L) 20-41	60	45	685,0	666,0	647,0	620,0	583,0	534,5	476	400,5	309	243	
6BHE(L) 20-42	60	45	700,0	681,5	663,0	635,5	597,0	547,5	487,5	410,5	316,5	249	

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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

PERFORMANCE TABLE 6BHE(L) 32

Model	Motor size	P.		Q=Flow rate										
		[HP]	[kW]	l/min m ³ /h	83,5 5	166,5 10	250 15	333,5 20	416,5 25	500 30	583,5 35	666,5 40	750 45	833,5 50
				H=Head [m]										
6BHE(L) 32-3	4"	7,5	5,5	64,3	61	58,0	55,2	51,9	48,6	45,2	41,1	35,9	29,3	21,4
6BHE(L) 32-4		10	7,5	86,5	82,4	78,3	74,2	69,7	65,3	60,8	55,3	48,4	39,7	29,1
6BHE(L) 32-3	6"	7,5	5,5	64,3	61	58,0	55,2	51,9	48,6	45,2	41,1	35,9	29,3	21,4
6BHE(L) 32-4		10	7,5	86,5	82,4	78,3	74,2	69,7	65,3	60,8	55,3	48,4	39,7	29,1
6BHE(L) 32-5		12,5	9,3	109,4	104,3	99,0	94,0	88,4	83,0	77,5	70,7	62,2	51,4	38,4
6BHE(L) 32-6		15	11	130,8	124,7	118,6	112,4	105,7	99,2	92,5	84,4	74,1	61,1	45,5
6BHE(L) 32-7		20	15	153,4	146,2	139,0	131,9	124,1	116,5	108,8	99,4	87,4	72,4	54,3
6BHE(L) 32-8		20	15	173,9	165,8	157,6	149,5	140,5	131,8	122,8	112	98,1	80,9	59,9
6BHE(L) 32-9		25	18,5	197,1	187,9	178,7	169,5	159,4	149,6	139,6	127,5	112,1	92,7	69,4
6BHE(L) 32-10		25	18,5	217,6	207,4	197,2	187,0	175,8	164,8	153,6	140	122,8	101,2	75
6BHE(L) 32-11		30	22	239,6	228,3	216,9	205,6	193,3	181,2	168,9	153,9	134,8	111	82,2
6BHE(L) 32-12		30	22	259,7	247,4	235,1	222,8	209,3	196,0	182,4	165,9	145	118,9	87,2
6BHE(L) 32-13		40	30	286,6	273,2	259,9	246,6	232,1	218,2	203,9	186,6	164,6	136,8	103,5
6BHE(L) 32-14		40	30	307,6	293,2	278,8	264,5	248,9	233,9	218,4	199,7	175,9	145,9	109,8
6BHE(L) 32-15		40	30	328,6	313,3	298,0	282,3	265,6	249,4	232,8	212,6	187	154,8	116
6BHE(L) 32-16		40	30	348,7	332,4	316,1	299,9	282,1	264,7	247	225,4	197,9	163,5	121,9
6BHE(L) 32-17		50	37	372,5	355,0	338,0	320,0	301,1	282,7	263,8	240,9	211,8	175,2	131,2
6BHE(L) 32-18		50	37	392,6	374,3	356,0	337,6	317,5	297,9	277,9	253,5	222,6	183,7	136,9
6BHE(L) 32-19	50	37	413,5	394,0	374,5	355,1	333,9	313,1	291,8	266	233,1	192	142,3	
6BHE(L) 32-20	50	37	433,6	413,2	393	372,4	350,0	328,0	305,5	278,1	243,4	200	147,4	
6BHE(L) 32-21	60	45	459,6	438,2	416,4	395,5	372,1	349,4	326,2	298	262,2	217,1	162,8	
6BHE(L) 32-22	60	45	480,5	458,0	435,5	413,1	388,6	364,8	340,5	310,9	273,2	225,9	168,8	
6BHE(L) 32-23	60	45	501,4	477,8	454,2	430,7	405,1	380,1	354,6	323,5	284	234,5	174,5	
6BHE(L) 32-24	60	45	521,5	497,1	472,6	448,2	421,4	395,3	368,6	336,1	294,7	242,9	180,1	
6BHE(L) 32-25	8"	75	55	558,2	532,2	506,4	480,7	453,0	426,8	399,5	366,9	325,2	272,3	209,3
6BHE(L) 32-26		75	55	579,3	551,7	525,4	499,2	470,4	443,1	414,7	380,8	337,3	282,3	216,6
6BHE(L) 32-27		75	55	601,2	573,4	545,5	517,7	487,8	459,4	429,9	394,6	349,4	292,2	223,9
6BHE(L) 32-28		75	55	622,3	593,5	564,8	536,1	505,1	475,6	445	408,3	361,4	302	231

PERFORMANCE TABLE 6BHE(L) 48

Model	Motor size	P.		Q=Flow rate										
		[HP]	[kW]	l/min m ³ /h	500 30	583,5 35	666,5 40,2	750 45	833,5 50	916,5 55	1000 60	1083,5 65	1166,5 70	1250 75
				H=Head [m]										
6BHE(L) 48-2	4"	7,5	5,5	33,7	31,6	29,6	28,1	26,3	24,6	22,6	20,7	18,1	15,5	
6BHE(L) 48-3		10	7,5	50,0	46,9	44,0	41,7	39,0	36,5	33,5	30,7	26,7	22,8	
6BHE(L) 48-2	6"	7,5	5,5	33,7	31,6	29,6	28,1	26,3	24,6	22,6	20,7	18,1	15,5	
6BHE(L) 48-3		10	7,5	50,0	46,9	44,0	41,7	39,0	36,5	33,5	30,7	26,7	22,8	
6BHE(L) 48-4		12,5	9,3	67,6	63,5	59,5	56,4	52,9	49,4	45,5	41,7	36,4	31,2	
6BHE(L) 48-5		15	11	83,8	78,7	73,8	69,9	65,5	61,2	56,3	51,5	44,9	38,4	
6BHE(L) 48-6		20	15	102,5	96,6	90,9	85,6	79,5	73,2	67,5	62,6	56,4	48,3	
6BHE(L) 48-7		20	15	118,0	111,5	104,5	98,4	91,2	83,9	77,5	71,7	64,5	54,8	
6BHE(L) 48-8		25	18,5	136,0	128,6	120,6	113,6	105,4	97,0	89,5	82,9	74,7	63,8	
6BHE(L) 48-9		25	18,5	151,4	143,0	134,0	126,2	117,0	107,6	99,4	91,9	82,6	70,1	
6BHE(L) 48-10		30	22	167,8	158,5	148,6	139,9	129,6	119,3	110,1	101,7	91,5	77,6	
6BHE(L) 48-11		30	22	182,6	172,5	161,6	152,1	140,7	129,4	119,6	110,2	99,0	83,4	
6BHE(L) 48-12		40	30	205,8	194,6	182,5	171,9	159,8	147,0	135,6	125,9	113,5	97,5	
6BHE(L) 48-13		40	30	221,6	209,5	196,5	185,1	171,9	158,1	145,9	135,3	121,9	104,3	
6BHE(L) 48-14		40	30	237,3	224,2	210,2	198,0	183,7	169,0	156,0	144,5	130,1	110,9	
6BHE(L) 48-15		50	37	255,3	241,3	226,3	213,1	197,9	182,0	168,0	155,7	140,3	119,9	
6BHE(L) 48-16		50	37	270,7	255,9	239,9	225,9	209,5	192,8	177,9	164,7	148,3	126,3	
6BHE(L) 48-17		50	37	286,0	270,2	253,2	238,5	221,0	203,3	187,7	173,5	156,1	132,5	
6BHE(L) 48-18	50	37	300,9	284,3	266,4	250,8	232,2	213,7	197,3	182,1	163,7	138,5		
6BHE(L) 48-19	60	45	323,1	305,4	286,4	269,8	250,5	230,4	212,6	197,1	177,5	151,6		
6BHE(L) 48-20	60	45	338,7	320,1	300,1	282,7	262,3	241,3	222,6	206,2	185,7	158,2		
6BHE(L) 48-21	60	45	354,2	334,6	313,7	295,4	273,9	252,0	232,6	215,2	193,7	164,6		
6BHE(L) 48-22	60	45	369,4	349,0	327,1	308,0	285,4	262,6	242,4	224	201,5	170,8		
6BHE(L) 48-23	8"	75	55	402,4	380,7	357,4	336,9	314,0	288,8	266,4	248,3	224,3	194,7	
6BHE(L) 48-24		75	55	419,0	396,4	372,1	350,7	326,8	300,6	277,3	258,3	233,3	202,3	
6BHE(L) 48-25		75	55	435,5	412,0	386,7	364,5	339,5	312,3	288,1	268,3	242,2	209,8	
6BHE(L) 48-26		75	55	452,0	427,6	401,3	378,2	352,2	323,9	298,8	278,2	251,1	217,3	

6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

PERFORMANCE TABLE 6BHE(L) 64

Model	Motor size	P _e		Q=Flow rate												
		[HP]	[kW]	l/min	750	833,5	916,5	1000	1083,5	1166,5	1250	1333,5	1416,5	1500	1666,5	
				m ³ /h	45,2	50	55,2	60,2	65,3	70,3	75,3	80,3	85,3	90,4	100,4	
				H=Head [m]												
6BHE(L) 64-2	4"	7,5	5,5	29,4	27,3	25,3	24,5	23,8	22,7	22,0	20,3	18,4	15,9	10,0		
6BHE(L) 64-3	6"	12,5	9,3	45,5	42,1	39,2	37,6	36,7	35,0	34,0	31,7	28,9	25,2	16,9		
6BHE(L) 64-4		15	11	59,8	55,4	51,5	49,6	48,2	46,0	44,7	41,3	37,6	32,6	21,3		
6BHE(L) 64-5		20	15	75,5	70,7	66,5	63,7	61,1	58,5	55,9	52	46,6	41,1	27,8		
6BHE(L) 64-6		20	15	89,0	83,3	78,3	75,1	72,0	68,8	65,6	60,7	54,3	47,7	31,4		
6BHE(L) 64-7		25	18,5	104,6	97,9	92,1	88,3	84,7	81,0	77,3	71,7	64,1	56,4	37,6		
6BHE(L) 64-8		30	22	119,0	111,4	104,7	100,4	96,3	92,0	87,8	81,2	72,7	63,9	42,2		
6BHE(L) 64-9		40	30	137,6	128,7	121,1	115,9	111,5	106,6	102,0	95,2	85,6	75,6	52,2		
6BHE(L) 64-10		40	30	151,7	141,9	133,5	127,9	122,8	117,5	112,3	104,6	93,9	82,8	56,5		
6BHE(L) 64-11		40	30	165,5	154,9	145,7	139,6	134,0	128,1	122,4	113,8	102	89,8	60,5		
6BHE(L) 64-12		50	37	181,1	169,5	159,4	152,8	146,7	140,2	134,0	124,6	111,7	98,5	66,6		
6BHE(L) 64-13		50	37	194,7	182,3	171,4	164,3	157,6	150,7	143,8	133,5	119,5	105,2	70,3		
6BHE(L) 64-14		50	37	208,0	194,8	183,1	175,6	168,3	160,9	153,5	142,0	127,0	111,6	73,7		
6BHE(L) 64-15		60	45	226,5	211,9	199,3	191,0	183,4	175,3	167,5	155,9	139,8	123,2	83,4		
6BHE(L) 64-16		60	45	240,2	224,8	211,4	202,7	194,5	186,0	177,6	164,9	147,7	130,1	87,3		
6BHE(L) 64-17		60	45	253,7	237,5	223,3	214,2	205,4	196,4	187,4	173,8	155,5	136,8	90,9		
6BHE(L) 64-18		60	45	267,1	250,1	235,1	225,6	216,2	206,7	197,1	182,4	163,1	143,3	94,4		
6BHE(L) 64-19		8"	75	55	294,9	275,9	259,7	248,2	239	228,5	218,9	205,3	185,0	164,0	115,8	
6BHE(L) 64-20			75	55	309,6	289,6	272,5	260,6	250,8	239,8	229,7	215,3	193,9	171,8	120,8	
6BHE(L) 64-21	75		55	324,1	303,2	285,3	272,9	262,6	251,1	240,4	225,2	202,7	179,5	125,6		

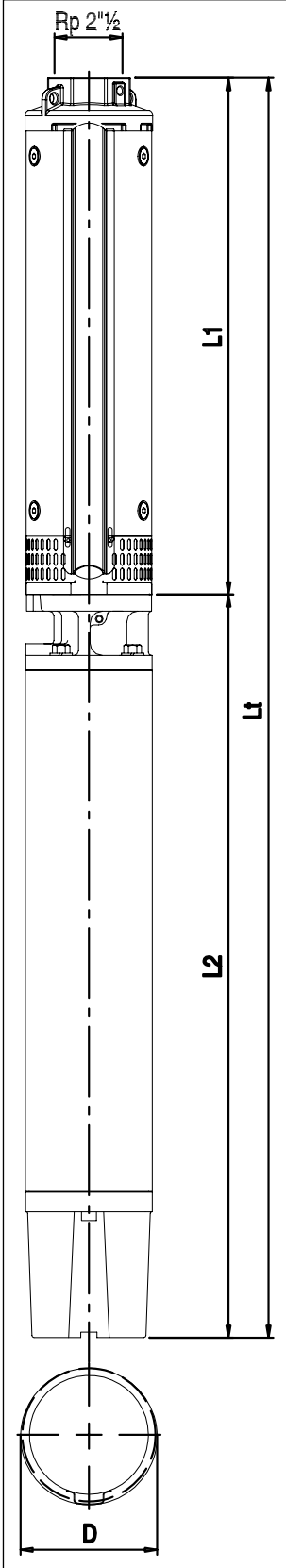
6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

6BHE(L) 13

DIMENSIONAL TABLE



Model	Motor size	P ₂		L1	L2	Dimensions [mm]			Weight [kg]
		[HP]	[kW]			Lt	D		
6BHE(L) 13-5	4"	5	3,7	413,5	520,0	933,5	142,5	-	30,5
6BHE(L) 13-6		7,5	5,5	443,5	652,5	1096,0	142,5	-	39,5
6BHE(L) 13-7		7,5	5,5	473,5	652,5	1126,0	142,5	-	39,5
6BHE(L) 13-8		7,5	5,5	503,5	652,5	1156,0	142,5	-	40,5
6BHE(L) 13-9		10	7,5	533,5	730,5	1264,0	142,5	-	45,0
6BHE(L) 13-10		10	7,5	563,5	730,5	1294,0	142,5	-	45,5
6BHE(L) 13-11		10	7,5	593,5	730,5	1324,0	142,5	-	46,5
6BHE(L) 13-5	6"	5,5	4	411,0	581,0	992,0	143,0	144,5	49,0
6BHE(L) 13-6		7,5	5,5	441,0	614,5	1055,5	143,0	144,5	53,5
6BHE(L) 13-7		7,5	5,5	471,0	614,5	1085,5	143,0	144,5	54,0
6BHE(L) 13-8		7,5	5,5	501,0	614,5	1115,5	143,0	144,5	55,0
6BHE(L) 13-9		10	7,5	531,0	646,0	1177,0	143,0	144,5	59,5
6BHE(L) 13-10		10	7,5	561,0	646,0	1207,0	143,0	144,5	60,0
6BHE(L) 13-11		10	7,5	591,0	646,0	1237,0	143,0	144,5	61,0
6BHE(L) 13-12		12,5	9,3	621,0	678,5	1299,5	143,0	144,5	64,5
6BHE(L) 13-13		12,5	9,3	651,0	678,5	1329,5	143,0	144,5	65,0
6BHE(L) 13-14		15	11	681,0	711,0	1392,0	143,0	144,5	69,5
6BHE(L) 13-15		15	11	711,0	711,0	1422,0	143,0	144,5	70,0
6BHE(L) 13-16		15	11	741,0	711,0	1452,0	143,0	144,5	71,0
6BHE(L) 13-17		15	11	771,0	711,0	1482,0	143,0	144,5	71,5
6BHE(L) 13-18		20	15	801,0	776,0	1577,0	143,0	144,5	78,0
6BHE(L) 13-19		20	15	831,0	776,0	1607,0	143,0	144,5	78,5
6BHE(L) 13-20		20	15	861,0	776,0	1637,0	143,0	144,5	79,5
6BHE(L) 13-21		20	15	891,0	776,0	1667,0	143,0	144,5	80,0
6BHE(L) 13-22		20	15	921,0	776,0	1697,0	143,0	144,5	80,5
6BHE(L) 13-23		25	18,5	951,0	841,5	1792,5	143,0	144,5	88,5
6BHE(L) 13-24		25	18,5	981,0	841,5	1822,5	143,0	144,5	89,0
6BHE(L) 13-25		25	18,5	1011,0	841,5	1852,5	143,0	144,5	90,0
6BHE(L) 13-26		25	18,5	1041,0	841,5	1882,5	143,0	144,5	90,5
6BHE(L) 13-27		25	18,5	1071,0	841,5	1912,5	143,0	144,5	92,5
6BHE(L) 13-28		25	18,5	1101,0	841,5	1942,5	143,0	144,5	92,5
6BHE(L) 13-29		30	22	1131,0	906,5	2037,5	143,0	144,5	100,0
6BHE(L) 13-30		30	22	1161,0	906,5	2067,5	143,0	144,5	100,5
6BHE(L) 13-31		30	22	1191,0	906,5	2097,5	143,0	144,5	100,5
6BHE(L) 13-32		30	22	1220,5	906,5	2127,0	143,0	144,5	101,0
6BHE(L) 13-33		40	30	1250,5	1036,5	2287,0	145,0	146,5	116,5
6BHE(L) 13-34		40	30	1280,5	1036,5	2317,0	145,0	146,5	117,5
6BHE(L) 13-35		40	30	1310,5	1036,5	2347,0	145,0	146,5	118,0
6BHE(L) 13-36		40	30	1340,5	1036,5	2377,0	145,0	146,5	118,5
6BHE(L) 13-37	40	30	1370,5	1036,5	2407,0	145,0	146,5	119,5	
6BHE(L) 13-38	40	30	1400,5	1036,5	2437,0	145,0	146,5	120,0	
6BHE(L) 13-39	40	30	1430,5	1036,5	2467,0	145,0	146,5	121,5	
6BHE(L) 13-40	40	30	1460,5	1036,5	2497,0	145,0	146,5	122,5	
6BHE(L) 13-41	40	30	1490,5	1036,5	2527,0	145,0	146,5	123,0	
6BHE(L) 13-42	40	30	1520,5	1036,5	2557,0	145,0	146,5	123,0	

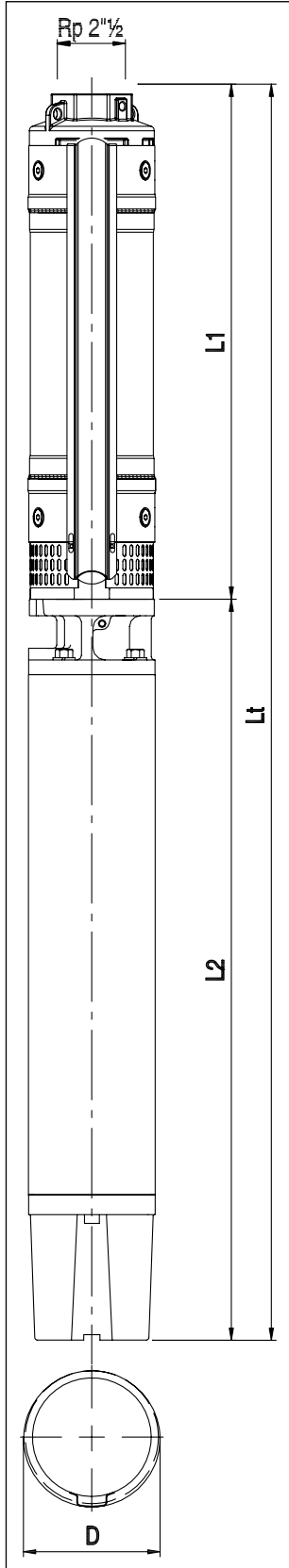
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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

6BHE(L) 20



DIMENSIONAL TABLE

Model	Motor size	P ₂		L1	L2	Dimensions [mm]			Weight [kg]
		[HP]	[kW]			Lt	D		
						1 cable	2 cables		
6BHE(L) 20-3	4"	5,5	4	385,0	477,0	862,0	142,5	-	27,0
6BHE(L) 20-4		7,5	5,5	422,5	652,5	1075,0	142,5	-	38,0
6BHE(L) 20-5		7,5	5,5	460,0	652,5	1112,5	142,5	-	39,0
6BHE(L) 20-6		10	7,5	497,5	730,5	1228,0	142,5	-	43,0
6BHE(L) 20-7		10	7,5	535,0	730,5	1265,5	142,5	-	44,0
6BHE(L) 20-3	6"	5,5	4	382,5	581,0	581,0	143,0	144,5	48,0
6BHE(L) 20-4		7,5	5,5	420,0	614,5	614,5	143,0	144,5	52,0
6BHE(L) 20-5		7,5	5,5	457,5	614,5	614,5	143,0	144,5	53,0
6BHE(L) 20-6		10	7,5	495,0	646,0	1141,0	143,0	144,5	57,5
6BHE(L) 20-7		10	7,5	532,5	646,0	1178,5	143,0	144,5	58,5
6BHE(L) 20-8		12,5	9,3	570,0	678,5	1248,5	143,0	144,5	62,0
6BHE(L) 20-9		12,5	9,3	607,5	678,5	1286,0	143,0	144,5	62,5
6BHE(L) 20-10		15	11	645,0	711,0	1356,0	143,0	144,5	67,0
6BHE(L) 20-11		15	11	682,5	711,0	1393,5	143,0	144,5	68,0
6BHE(L) 20-12		20	15	720,0	776,0	1496,0	143,0	144,5	74,0
6BHE(L) 20-13		20	15	757,5	776,0	1533,5	143,0	144,5	75,0
6BHE(L) 20-14		20	15	795,0	776,0	1571,0	143,0	144,5	76,0
6BHE(L) 20-15		20	15	832,5	776,0	1608,5	143,0	144,5	76,5
6BHE(L) 20-16		25	18,5	870,0	841,5	1711,5	143,0	144,5	84,5
6BHE(L) 20-17		25	18,5	907,5	841,5	1749,0	143,0	144,5	85,5
6BHE(L) 20-18		25	18,5	945,0	841,5	1786,5	143,0	144,5	86,0
6BHE(L) 20-19		30	22	982,5	906,5	1889,0	143,0	144,5	93,0
6BHE(L) 20-20		30	22	1020,0	906,5	1926,5	143,0	144,5	93,5
6BHE(L) 20-21		30	22	1057,5	906,5	1964,0	143,0	144,5	94,5
6BHE(L) 20-22		30	22	1095,0	906,5	2001,5	143,0	144,5	95,5
6BHE(L) 20-23		40	30	1132,5	1036,5	2169,0	143,0	144,5	110,5
6BHE(L) 20-24		40	30	1170,0	1036,5	2206,5	143,0	144,5	111,5
6BHE(L) 20-25		40	30	1207,5	1036,5	2244,0	143,0	144,5	112,5
6BHE(L) 20-26		40	30	1245,0	1036,5	2281,5	143,0	144,5	113,0
6BHE(L) 20-27		40	30	1282,5	1036,5	2319,0	143,0	144,5	115,0
6BHE(L) 20-28		40	30	1319,5	1036,5	2356,0	143,0	144,5	115,0
6BHE(L) 20-29		40	30	1357,0	1036,5	2393,5	143,0	144,5	115,5
6BHE(L) 20-30		40	30	1394,5	1036,5	2431,0	143,0	144,5	116,5
6BHE(L) 20-31		50	37	1432,0	1421,5	2853,5	145,0	146,5	171,5
6BHE(L) 20-32		50	37	1469,5	1421,5	2891,0	145,0	146,5	172,0
6BHE(L) 20-33		50	37	1507,0	1421,5	2928,5	145,0	146,5	173,0
6BHE(L) 30-34		50	37	1544,5	1421,5	2966,0	145,0	146,5	173,5
6BHE(L) 30-35	50	37	1582,0	1421,5	3003,5	145,0	146,5	174,5	
6BHE(L) 20-36	50	37	1619,5	1421,5	3041,0	145,0	146,5	175,0	
6BHE(L) 20-37	60	45	1657,0	1574,0	3231,0	145,0	146,5	190,5	
6BHE(L) 20-38	60	45	1694,5	1574,0	3268,5	145,0	146,5	192,0	
6BHE(L) 20-39	60	45	1732,0	1574,0	3306,0	145,0	146,5	192,0	
6BHE(L) 20-40	60	45	1769,5	1574,0	3343,5	145,0	146,5	192,5	
6BHE(L) 20-41	60	45	1807,0	1574,0	3381,0	145,0	146,5	194,0	
6BHE(L) 20-42	60	45	1844,5	1574,0	3418,5	145,0	146,5	195,0	

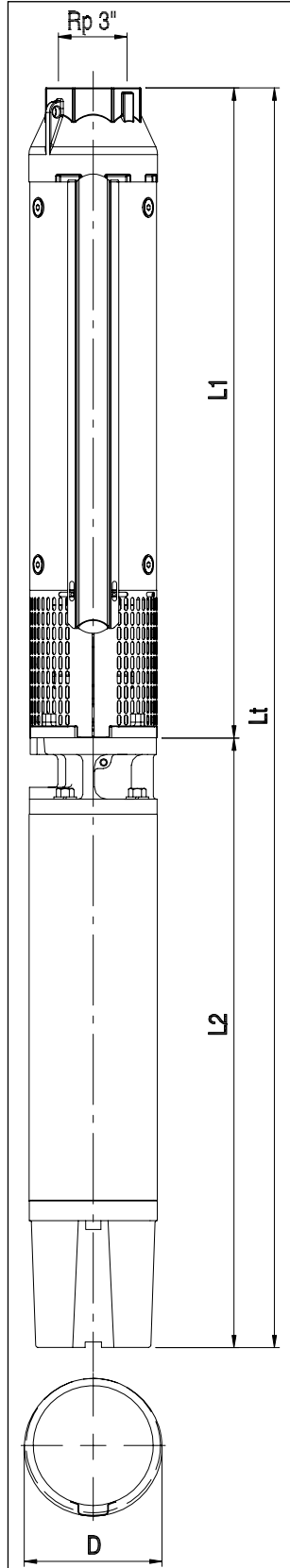
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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

6BHE(L) 32



DIMENSIONAL TABLE

Model	Motor size	P ₂		L1	L2	Dimensions [mm]			Weight [kg]
		[HP]	[kW]			Lt	D		
6BHE(L) 32-3	4"	7,5	5,5	622,0	652,5	1274,5	142,5	-	41,5
6BHE(L) 32-4		10	7,5	707,5	730,5	1438,0	142,5	-	47,5
6BHE(L) 32-3	6"	7,5	5,5	620,0	614,5	1234,5	143,0	144,5	55,5
6BHE(L) 32-4		10	7,5	705,5	646,0	1351,5	143,0	144,5	62,0
6BHE(L) 32-5		12,5	9,3	790,5	678,5	1469,0	143,0	144,5	66,5
6BHE(L) 32-6		15	11	876,0	711,0	1587,0	143,0	144,5	72,0
6BHE(L) 32-7		20	15	961,5	776,0	1737,5	143,0	144,5	79,5
6BHE(L) 32-8		20	15	1047,0	776,0	1823,0	143,0	144,5	82,0
6BHE(L) 32-9		25	18,5	1132,5	841,5	1974,0	143,0	144,5	91,0
6BHE(L) 32-10		25	18,5	1218,0	841,5	2059,5	143,0	144,5	93,0
6BHE(L) 32-11		30	22	1303,5	906,5	2210,0	143,0	144,5	101,0
6BHE(L) 32-12		30	22	1389,0	906,5	2295,5	143,0	144,5	103,0
6BHE(L) 32-13		40	30	1474,5	1036,5	2511,0	143,0	144,5	119,5
6BHE(L) 32-14		40	30	1560,0	1036,5	2596,5	143,0	144,5	122,0
6BHE(L) 32-15		40	30	1645,5	1036,5	2682,0	143,0	144,5	124,0
6BHE(L) 32-16		40	30	1730,5	1036,5	2767,0	143,0	144,5	126,0
6BHE(L) 32-17		50	37	1816,0	1421,5	3237,5	143,0	144,5	182,0
6BHE(L) 32-18		50	37	1901,5	1421,5	3323,0	143,0	144,5	184,0
6BHE(L) 32-19	50	37	1987,0	1421,5	3408,5	143,0	144,5	186,0	
6BHE(L) 32-20	50	37	2072,5	1421,5	3494,0	143,0	144,5	188,5	
6BHE(L) 32-21	60	45	2157,5	1574,0	3731,5	143,0	144,5	204,5	
6BHE(L) 32-22	60	45	2243,0	1574,0	3817,0	143,0	144,5	206,5	
6BHE(L) 32-23	60	45	2328,5	1574,0	3902,5	143,0	144,5	208,5	
6BHE(L) 32-24	60	45	2414,0	1574,0	3988,0	143,0	144,5	210,5	
6BHE(L) 32-25	8"	75	55	2599,0	1204,0	3803,0	190,5	190,5	243,0
6BHE(L) 32-26		75	55	2684,5	1204,0	3888,5	190,5	190,5	245,0
6BHE(L) 32-27		75	55	2770,0	1204,0	3974,0	190,5	190,5	247,5
6BHE(L) 32-28		75	55	2855,0	1204,0	4059,0	190,5	190,5	249,5

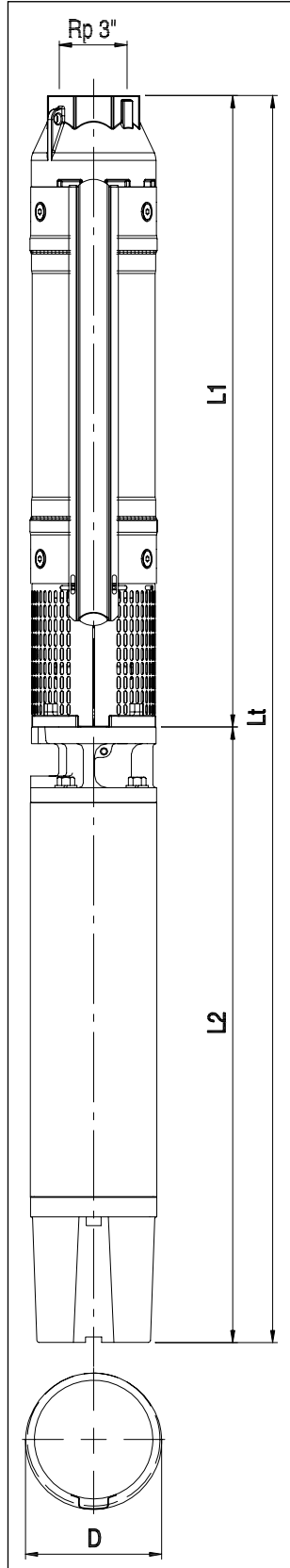
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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

6BHE(L) 48



DIMENSIONAL TABLE

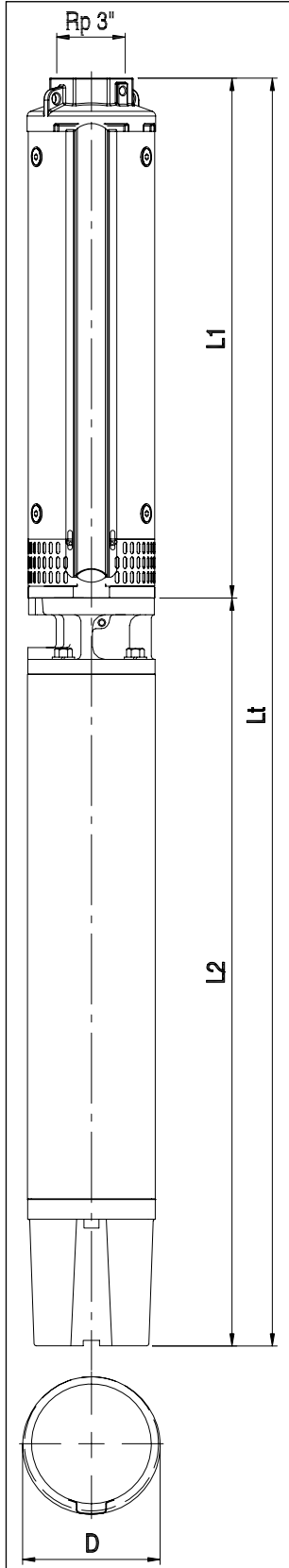
Model	Motor size	P ₂		L1	L2	Dimensions [mm]			Weight [kg]
		[HP]	[kW]			Lt	D		
							1 cable	2 cables	
6BHE(L) 48-2	4"	7,5	5,5	593,5	652,5	1246,0	142,5	-	40,5
6BHE(L) 48-3		10	7,5	707,5	730,5	1438,0	142,5	-	47,0
6BHE(L) 48-2	6"	7,5	5,5	591,5	614,5	1206,0	143,0	144,5	54,5
6BHE(L) 48-3		10	7,5	705,5	646,0	1351,5	143,0	144,5	61,0
6BHE(L) 48-4		12,5	9,3	819,5	678,5	1498,0	143,0	144,5	66,5
6BHE(L) 48-5		15	11	933,5	711,0	1644,5	143,0	144,5	72,5
6BHE(L) 48-6		20	15	1047,0	776,0	1823,0	143,0	144,5	80,5
6BHE(L) 48-7		20	15	1161,0	776,0	1937,0	143,0	144,5	83,0
6BHE(L) 48-8		25	18,5	1275,0	841,5	2116,5	143,0	144,5	92,5
6BHE(L) 48-9		25	18,5	1389,0	841,5	2230,5	143,0	144,5	95,5
6BHE(L) 48-10		30	22	1503,0	906,5	2409,5	143,0	144,5	104,0
6BHE(L) 48-11		30	22	1617,0	906,5	2523,5	143,0	144,5	106,5
6BHE(L) 48-12		40	30	1730,5	1036,5	2767,0	143,0	144,5	123,5
6BHE(L) 48-13		40	30	1844,5	1036,5	2881,0	143,0	144,5	126,0
6BHE(L) 48-14		40	30	1958,5	1036,5	2995,0	143,0	144,5	129,0
6BHE(L) 48-15		50	37	2072,5	1421,5	3494,0	143,0	144,5	185,5
6BHE(L) 48-16		50	37	2186,0	1421,5	3607,5	143,0	144,5	188,0
6BHE(L) 48-17		50	37	2300,0	1421,5	3721,5	143,0	144,5	190,5
6BHE(L) 48-18		50	37	2414,0	1421,5	3835,5	143,0	144,5	193,5
6BHE(L) 48-19		60	45	2527,5	1574,0	4101,5	143,0	144,5	210,0
6BHE(L) 48-20	60	45	2641,5	1574,0	4215,5	143,0	144,5	212,5	
6BHE(L) 48-21	60	45	2755,0	1574,0	4329,0	143,0	144,5	215,0	
6BHE(L) 48-23	8"	75	55	3083,0	1204,0	4287,0	190,5	190,5	249,5
6BHE(L) 48-24		75	55	3196,5	1204,0	4400,5	190,5	190,5	252,0
6BHE(L) 48-25		75	55	3310,5	1204,0	4514,5	190,5	190,5	254,5
6BHE(L) 48-26		75	55	3424,0	1204,0	4628,0	190,5	190,5	257,5

6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

DIMENSIONS 6BHE(L) 64



DIMENSIONAL TABLE

Model	Motor size	P ₂		L1	L2	Dimensions [mm]			Weight [kg]
		[HP]	[kW]			Lt	D		
						1 cable	2 cables		
6BHE(L) 64-2	4"	7,5	5,5	593,5	652,5	1246,0	142,5	-	40,5
6BHE(L) 64-2		7,5	5,5	591,5	614,5	1206,0	143,0	144,5	54,5
6BHE(L) 64-3		12,5	9,3	705,5	678,5	1384,0	143,0	144,5	63,5
6BHE(L) 64-4		15	11	819,5	711,0	1530,5	143,0	144,5	70,0
6BHE(L) 64-5		20	15	933,5	776,0	1709,5	143,0	144,5	78,0
6BHE(L) 64-6		20	15	1047,0	776,0	1823,0	143,0	144,5	80,5
6BHE(L) 64-7		25	18,5	1161,0	841,5	2002,5	143,0	144,5	90,0
6BHE(L) 64-8		30	22	1275,0	906,5	2181,5	143,0	144,5	99,0
6BHE(L) 64-9		40	30	1389,0	1036,5	2425,5	143,0	144,5	116,0
6BHE(L) 64-10		40	30	1503,0	1036,5	2539,5	143,0	144,5	118,5
6BHE(L) 64-11		40	30	1617,0	1036,5	2653,5	143,0	144,5	121,0
6BHE(L) 64-12		50	37	1730,5	1421,5	3152,0	143,0	144,5	177,5
6BHE(L) 64-13		50	37	1844,5	1421,5	3266,0	143,0	144,5	180,5
6BHE(L) 64-14		50	37	1958,5	1421,5	3380,0	143,0	144,5	183,0
6BHE(L) 64-15		60	45	2072,5	1574,0	3646,5	143,0	144,5	199,5
6BHE(L) 64-16		60	45	2186,0	1574,0	3760,0	143,0	144,5	202,0
6BHE(L) 64-17		60	45	2300,0	1574,0	3874,0	143,0	144,5	205,0
6BHE(L) 64-18		60	45	2414,0	1574,0	3988,0	143,0	144,5	207,5
6BHE(L) 64-19		8"	75	55	2627,5	1204,0	3831,5	190,5	190,5
6BHE(L) 64-20	75		55	2741,5	1204,0	3945,5	190,5	190,5	241,5
6BHE(L) 64-21	75		55	2855,0	1204,0	4059,0	190,5	190,5	244,5

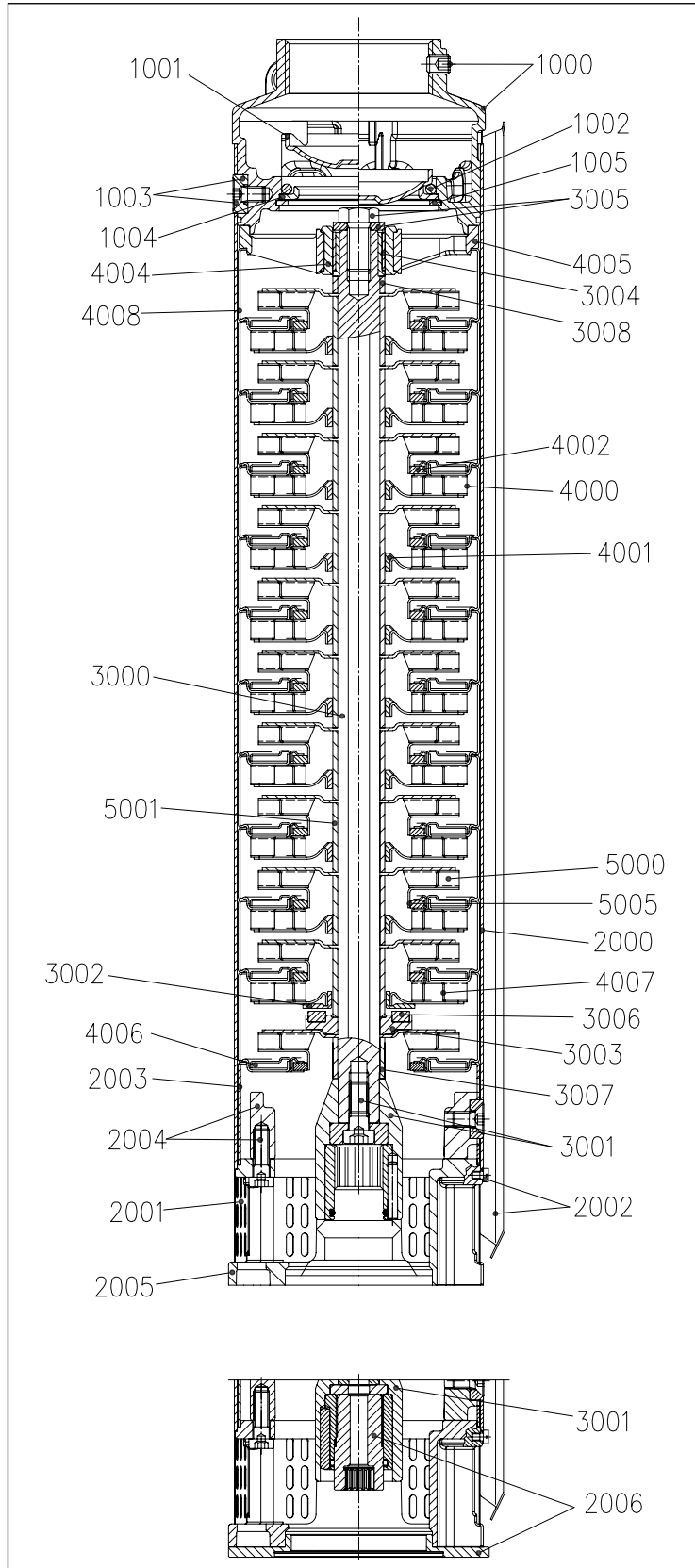
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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

SECTIONAL VIEW 6BHE(L) 13-20



MATERIALS TABLE

Ref.	Name	Material	
		6BHE	6BHEL
1000	Discharge head and screw	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
1001	Valve	EN 1.4401 (AISI 316)	
1002	O-ring	Nitrile rubber (NBR)	
1003	Screws and outer case locking nuts	EN 1.4401 (AISI 316)	
1004	Valve support	EN 1.4401 (AISI 316)	
1005	Seeger ring	EN 1.4401 (AISI 316)	
2000	Outer case	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
2001	Suction strainer	EN 1.4401 (AISI 316)	
2002	Cable guard and screws	EN 1.4401 (AISI 316)	
2003	Initial spacer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
2004	Flange and bolts	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
2005	Motor adapter	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
2006	4" motor flange/coupling adapter	-	
3000	Pump shaft	EN 1.4057 (AISI 431)	EN 1.4401 (AISI 316)+ EN 1.4460 (AISI 329)
3001	Coupling	EN 1.4057 (AISI 431)+ EN 1.4460 (AISI 329)	EN 1.4401 (AISI 316)+ EN 1.4460 (AISI 329)
3002	Upper up-thrust washer	EN 1.4401 (AISI 316)	
3003	Lower up-thrust washer	EN 1.4401 (AISI 316)	
3004	Upper journal sleeve	EN 1.4460 (AISI 329) with ceramic coating	
3005	Screw and washer	EN 1.4401 (AISI 316)	
3006	Up-thrust ring	PTFE	
3007	Lower spacer	EN 1.4401 (AISI 316)	
3008	Upper spacer	EN 1.4401 (AISI 316)	
4000	Diffusers	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
4001	Secondary bearing bush	Nitrile rubber (NBR)	
4002	Floating neck ring	PTFE	
4004	Bearing bush	Nitrile rubber (NBR)	
4005	Upper bearing guide	EN 1.4401 (AISI 316)	
4006	First diffuser	EN 1.4401 (AISI 316)	
4007	Diffuser with upper up-thrust washer	EN 1.4401 (AISI 316)	
4008	Last diffuser	EN 1.4401 (AISI 316)	
5000	Impeller	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
5001	Secondary journal sleeve	EN 1.4401 (AISI 316)	
5005	Wear ring	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)

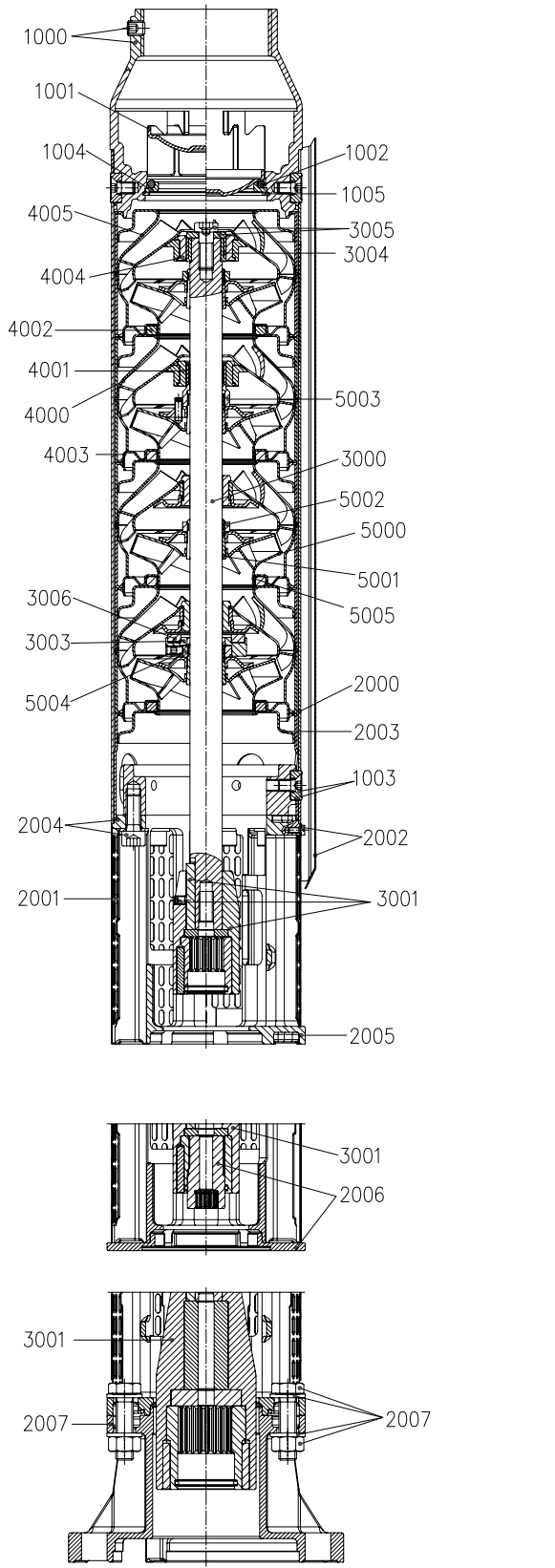
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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

SECTIONAL VIEW 6BHE(L) 32-48-64



MATERIALS TABLE

Ref.	Name	Material	
		6BHE	6BHEL
1000	Discharge head and screw	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
1001	Valve	EN 1.4401 (AISI 316)	
1002	O-ring	Nitrile rubber (NBR)	
1003	Screws and outer case locking nuts	EN 1.4401 (AISI 316)	
1004	Valve support	EN 1.4401 (AISI 316)	
1005	Seeger ring	EN 1.4401 (AISI 316)	
2000	Outer case	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
2001	Suction strainer	EN 1.4401 (AISI 316)	
2002	Cable guard and screws	EN 1.4401 (AISI 316)	
2003	Initial spacer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
2004	Flange and bolts	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
2005	Motor adapter	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
2006	4" motor flange/coupling adapter	-	
2007	8" Motor adapter/bolts and washer	EN 1.4057 (AISI 431)	
3000	Pump shaft	EN 1.4057 (AISI 431)+ EN 1.4460 (AISI 329)	EN 1.4401 (AISI 316)+ EN 1.4460 (AISI 329)
3001	Coupling	EN 1.4057 (AISI 316)	EN 1.4401 (AISI 316)+ EN 1.4460 (AISI 329)
3003	Lower up-thrust washer	EN 1.4401 (AISI 316)	
3004	Upper journal sleeve	EN 1.4460 (AISI 329) with ceramic coating	
3005	Screw and washer	EN 1.4401 (AISI 316)	
3006	Up-thrust ring	PTFE	
4000	Diffusers	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
4001	Secondary bearing bush	Nitrile rubber (NBR)	
4002	Floating neck ring	PTFE	
4003	Flange clamping neck ring	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
4004	Bearing bush	Nitrile rubber (NBR)	
4005	Last/intermediate diffuser	EN 1.4401 (AISI 316)	
5000	Impeller	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
5001	Split cone	EN 1.4401 (AISI 316)	
5002	Split cone nut	EN 1.4401 (AISI 316)	
5003	Intermediate split cone nut	EN 1.4401 (AISI 316)	
5004	Up-thrust split cone nut	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
5005	Wear ring	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)

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6BHE(L)

6" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

ELECTRIC DATA TABLE 6BHE(L) WITH OIL FILLED MOTOR

Motor size	Motor P ₂		Thrust [N]	P ₁ [kW]	Three phase 380V		Power factor	P ₁ [kW]	Three phase 460V		Power factor
	[HP]	[kW]			I _n [A]	I _Δ [A]			I _n [A]	I _Δ [A]	
4"	4	3	5000	4,15	8,3	32,0	0,76	4,35	7,1	36,0	0,77
	5,5	4	5000	4,80	9,6	45,0	0,76	6,09	9,8	45,0	0,78
	7,5	5,5	5000	6,89	13,6	55,0	0,77	8,22	13,4	62,0	0,77
	10	7,5	4400	10,01	19,5	72,0	0,78	11,35	18,5	76,0	0,77
6"	5,5	4	5000/10000	5,43	9,6	10,7	0,86	3,60	7,8	8,9	0,58
	7,5	5,5	5000/10000	7,02	13,0	15,1	0,82	7,19	11,0	12,6	0,82
	10	7,5	10000	9,39	17,4	19,2	0,82	9,73	14,9	16,8	0,82
	12,5	9,3	10000	11,17	20,2	12,5	0,84	12,78	19,8	22,4	0,81
	15	11	10000	13,65	25,6	29,4	0,81	13,55	21,0	24,0	0,81
	20	15	10000	18,18	34,1	38,0	0,81	18,20	27,2	30,6	0,84
	25	18,5	10000	21,74	39,8	45,6	0,83	22,62	33,8	38,0	0,84
	30	22	10000	25,84	47,3	54,6	0,83	26,58	40,2	45,5	0,83
	40	30	20000	35,29	66,2	75,0	0,81	35,47	53,0	61,8	0,84
	50	37	20000	45,60	84,5	96,0	0,82	47,61	72,0	76,0	0,83

ELECTRIC DATA TABLE 6BHE(L) WITH WATER FILLED MOTOR

Motor size	Motor P ₂		Thrust [N]	P ₁ [kW]	Three phase 460V		Power factor
	[HP]	[kW]			I _n [A]	I _Δ [A]	
4"	4	3	3425	4,53	7,2	39,7	0,79
	5	3,7	3425	5,48	8,6	51,8	0,80
	7,5	5,5	3440	8,20	12,4	71,0	0,83
	10	7,5	3435	11,11	16,8	99,7	0,83
6"	5,5	4	15500	5,49	8,3	43,3	0,83
	7,5	5,5	15500	8,13	12,3	65,0	0,83
	10	7,5	15500	10,9	16,1	86,0	0,85
	12,5	9,3	15500	13,05	19,5	118,0	0,84
	15	11	15500	16,05	23,7	133,0	0,85
	20	15	15500	21,0	30,3	181,0	0,87
8"	25	18,5	15500	25,99	37,5	240,0	0,87
	30	22	15500	31,33	45,2	284,0	0,87
	40	30	27500	42,21	61,6	397,0	0,86
	50	37	27500	51,15	77,0	414,0	0,85
	60	45	27500	61,63	91,0	518,0	0,85
	60	45	45000	58,24	86,0	658,0	0,85
	75	55	45000	74,17	107,0	864,0	0,87
	100	75	45000	98,43	142,0	1211,0	0,87
	125	93	45000	125,82	188,0	1318,0	0,84
	150	110	45000	150,06	219,0	1620,0	0,86

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8BHE(L)

8" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316



8" borehole centrifugal pumps for deep-wells in AISI 304 (8BHE) and AISI 316 stainless steel (8BH(L)) for deep wells.

This range of borehole pumps has been developed specifically for high flow rate pumping requirements.

APPLICATIONS

- Water supply and pressure boosting
- Irrigation
- Industrial cooling and processing
- Fountains
- Fire-fighting systems

TECHNICAL DETAILS

- Corrosion-proof
- Strong
- Reliable
- Compact
- Suitable for horizontal operation

PUMP TECHNICAL DATA

- Maximum working pressure: 70 bar
- Maximum immersion:
 - 350 m (with water filled motor)
 - 150 m (with oil filled motor)
- Temperature of the liquid: from -5°C to +60°C
- 6" motor adapter
- Rp 5" discharge connection

The pump and the motor are supplied separately.

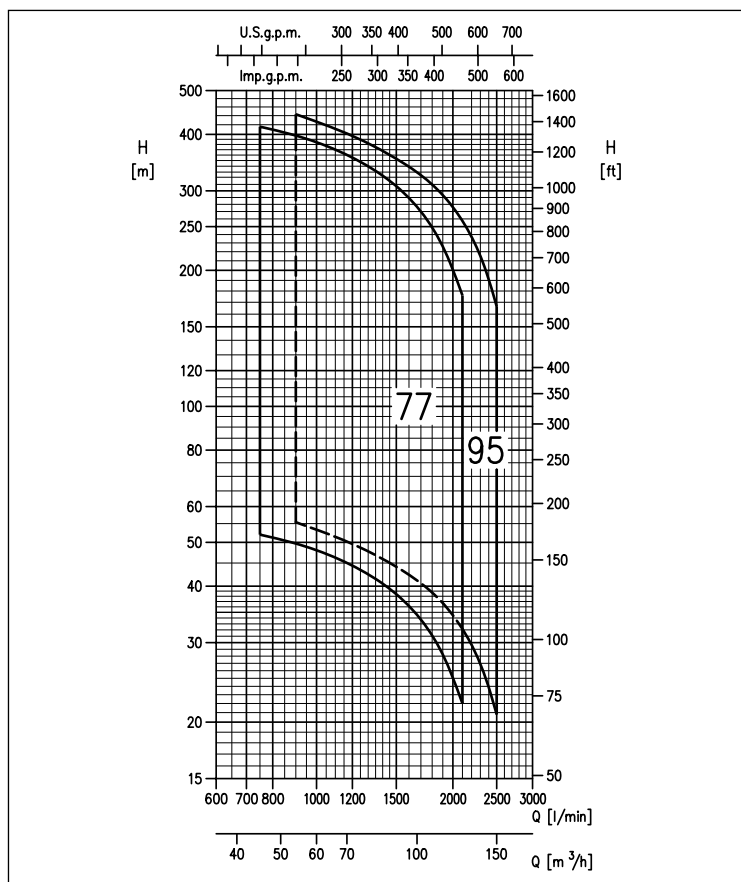
MOTOR TECHNICAL DATA

- 2 poles oil filled motors (OY) and water filled motors (WY),
- Maximum start per hour: 30 (OY) - 20 (WY)
- Protection degree IP58 (OY), IP68 (WY)
- Class of insulation F (6" OY version) (8" WY version) (6" WY version)
- 380-460V(±10%) 60 Hz three phase voltage (OY) 460V(-10%+6%) 60 Hz three phase voltage (WY)
- For cables dimensioning please see page 31 or our Data Book on the web site www.ebara-europe.com

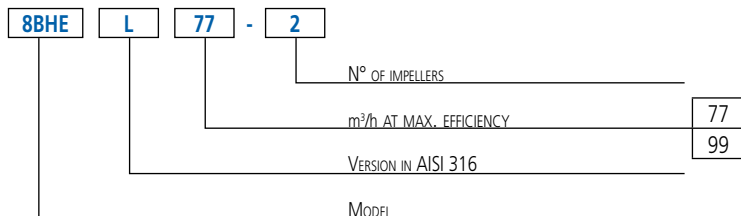
MATERIALS

- Discharge casing, stages, bracket in AISI 304 (8BHE) and AISI 316 (8BH(L))
- Shaft in AISI 329
- Impeller in AISI 316

PERFORMANCE RANGE (according to ISO 9906 Attachment A)



IDENTIFICATION CODE



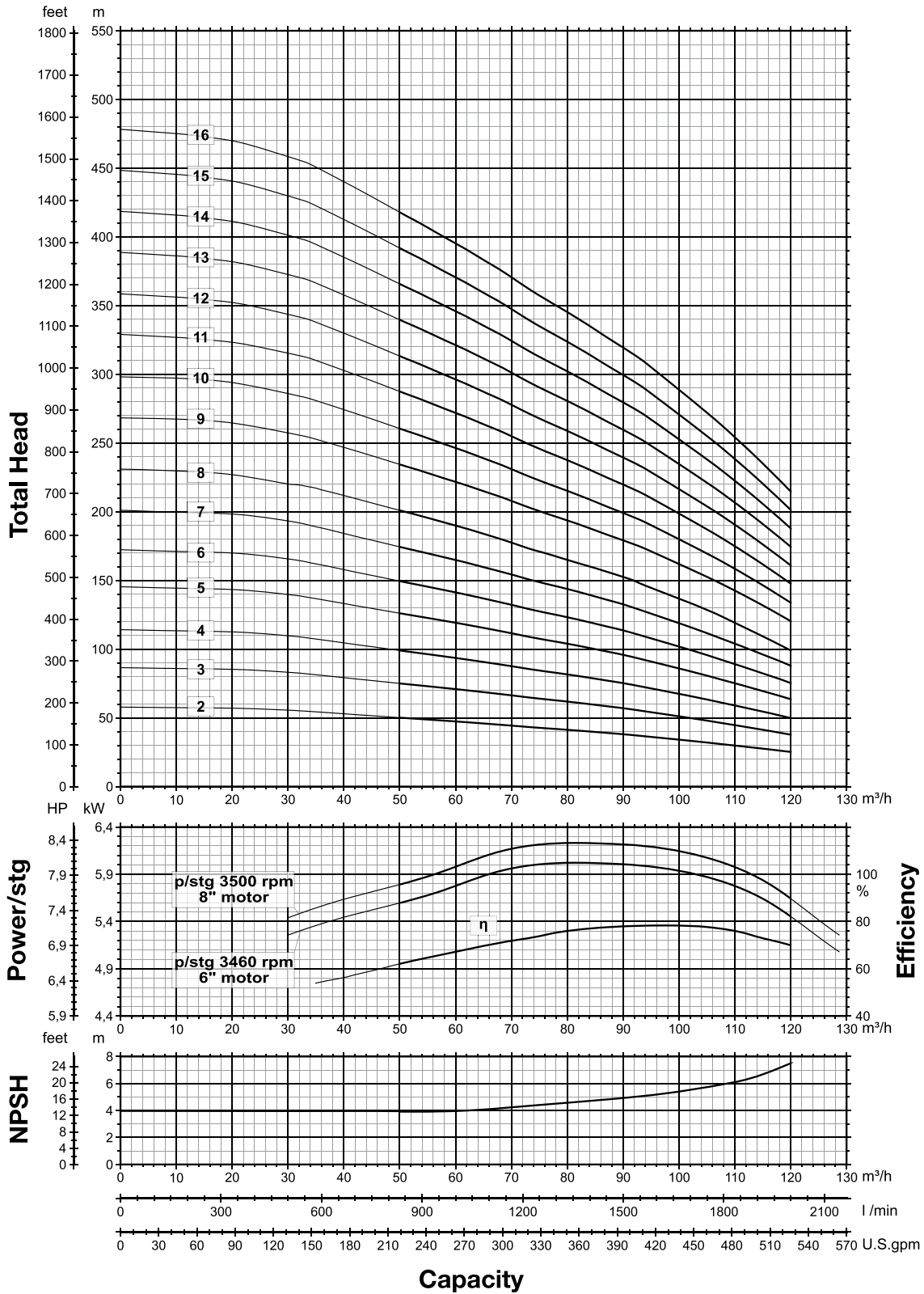


8BHE(L)

8" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

PERFORMANCE CURVES 8BHE(L) 77 series (according to ISO 9906 Attachment A)



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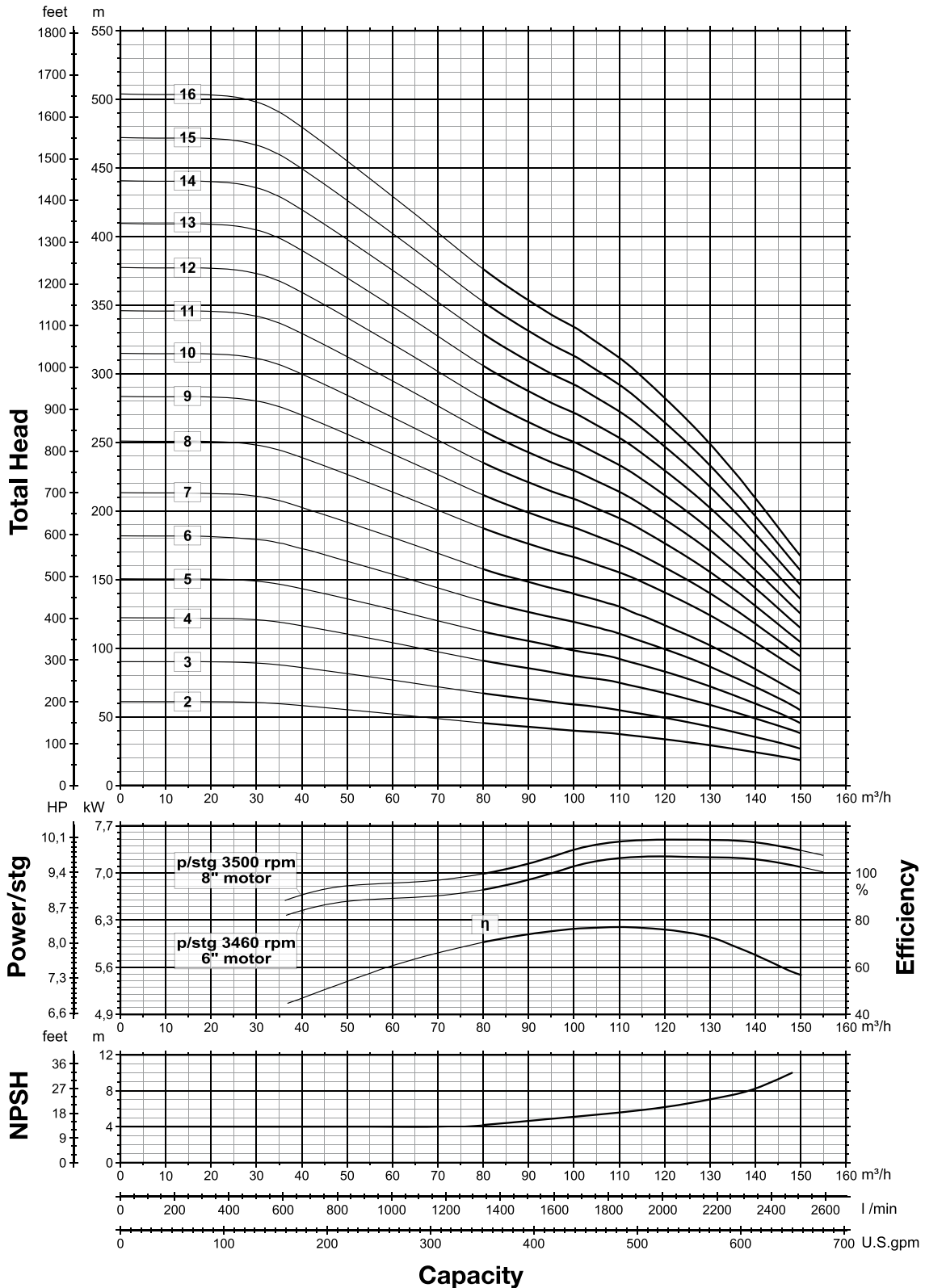


8BHE(L)

8" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

PERFORMANCE CURVES 8BHE(L) 95 series (according to ISO 9906 Attachment A)



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8BHE(L)

8" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

PERFORMANCE TABLE

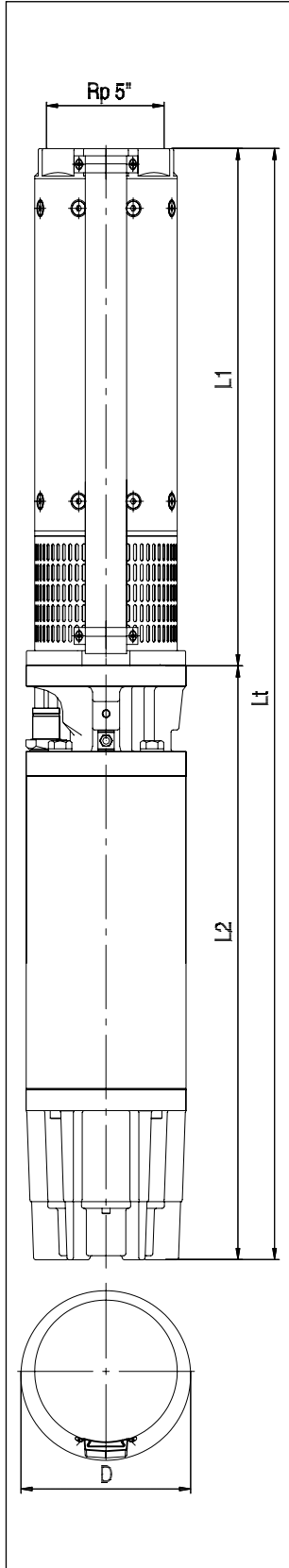
Model	Motor size	P:		Q=Flow rate							
		[HP]	[kW]	l/min m ³ /h	750 45	900 54	1200 72	1500 90	1800 108	2100 126	2300 138
				H=Head [m]							
86 BHE 77-2	6"	15	11	52,0	49,5	44,5	38,4	31,1	22,0	-	-
86 BHE 77-3		25	18,5	78,0	74,5	66,5	57,5	46,5	33,0	-	-
86 BHE 77-4		30	22	104,0	99,5	89,0	77,0	62,0	44,0	-	-
86 BHE 77-5		40	30	130,0	124,0	111,0	96,0	78,0	55,0	-	-
86 BHE 77-6		50	37	156,0	149,0	133,0	115,0	93,5	66,0	-	-
86 BHE 77-7		50	37	182,0	174,0	155,0	134,0	109,0	77,0	-	-
86 BHE 77-8		60	45	208,0	199,0	178,0	154,0	124,0	88,0	-	-
86 BHE 77-9		75	55	234,0	224,0	200,0	173,0	140,0	99,0	-	-
86 BHE 77-10	8"	75	55	260,0	249,0	222,0	192,0	156,0	110,0	-	-
86 BHE 77-11		100	75	286,0	273,0	244,0	211,0	171,0	121,0	-	-
86 BHE 77-12		100	75	312,0	298,0	266,0	230,0	187,0	132,0	-	-
86 BHE 77-13		100	75	338,0	323,0	289,0	250,0	202,0	143,0	-	-
86 BHE 77-14		125	93	364,0	348,0	311,0	269,0	218,0	154,0	-	-
86 BHE 77-15		125	93	390,0	373,0	333,0	288,0	233,0	165,0	-	-
86 BHE 77-16		125	93	416,0	398,0	355,0	307,0	249,0	176,0	-	-
86 BHE 95-2		6"	20	15	-	55,5	49,5	44,0	38,7	32,2	26,9
86 BHE 95-3	30		22	-	83,0	74,5	66,0	58,0	48,0	40,5	31,2
86 BHE 95-4	40		30	-	111,0	99,0	88,5	77,5	64,5	54,0	41,5
86 BHE 95-5	50		37	-	139,0	124,0	110,0	97,0	80,5	67,5	52,0
86 BHE 95-6	50		37	-	166,0	149,0	133,0	116,0	96,5	80,5	62,5
86 BHE 95-6	60		45	-	194,0	174,0	155,0	136,0	113,0	94,0	73,0
86 BHE 95-8	8"	75	55	-	221,0	198,0	177,0	155,0	129,0	108,0	83,0
86 BHE 95-9		100	75	-	249,0	223,0	199,0	174,0	145,0	121,0	94,0
86 BHE 95-10		100	75	-	277,0	248,0	221,0	194,0	161,0	135,0	104,0
86 BHE 95-11		100	75	-	305,0	273,0	243,0	213,0	177,0	148,0	114,0
86 BHE 95-12		125	93	-	332,0	298,0	265,0	232,0	193,0	161,0	125,0
86 BHE 95-13		125	93	-	360,0	322,0	287,0	252,0	209,0	175,0	135,0
86 BHE 95-14		125	93	-	388,0	347,0	309,0	271,0	225,0	188,0	146,0
86 BHE 95-15		150	110	-	416,0	372,0	331,0	290,0	241,0	202,0	156,0
86 BHE 95-16		150	110	-	443,0	397,0	353,0	310,0	257,0	215,0	166,0

8BHE(L)

8" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

DIMENSIONS 8BHE(L)



DIMENSIONAL TABLE

Model	Motor size	P ₂		Dimensions [mm]					Weight [kg]
		[HP]	[kW]	L1	L2	Lt	D		
						1 cable	2 cables		
86 BHE(L) 77-2	6"	15	11	644	711	1355	186.5	192	82.5
86 BHE(L) 77-3		25	18.5	770	841.5	1611.5	186.5	192	100
86 BHE(L) 77-4		30	22	896	906.5	1802.5	186.5	192	111
86 BHE(L) 77-5		40	30	1022	1036.5	2058.5	186.5	192	130
86 BHE(L) 77-6		50	37	1148	1421.5	2569.5	186.5	192	189
86 BHE(L) 77-7		50	37	1274	1421.5	2695.5	186.5	192	194
86 BHE(L) 77-8	60	45	1400	1574	2974	186.5	192	213	
86 BHE(L) 77-9	8"	75	55	1531	1204	2735	195	197.5	242
86 BHE(L) 77-10		75	55	1657	1204	2861	195	197.5	247
86 BHE(L) 77-11		100	75	1783	1395	3178	195	197.5	290
86 BHE(L) 77-12		100	75	1909	1395	3304	195	197.5	295
86 BHE(L) 77-13		100	75	2035	1395	3430	195	197.5	300
86 BHE(L) 77-14		125	93	2161	1747	3908	195	197.5	383
86 BHE(L) 77-15		125	93	2287	1747	4034	195	197.5	388
86 BHE(L) 77-16		125	93	2413	1747	4160	195	197.5	392.5
86 BHE(L) 95-2	6"	20	15	644	776	1420	186.5	192	88
86 BHE(L) 95-3		30	22	770	906.5	1676.5	186.5	192	106
86 BHE(L) 95-4		40	30	896	1036.5	1932.5	186.5	192	125.5
86 BHE(L) 95-5		50	37	1022	1421.5	2443.5	186.5	192	184
86 BHE(L) 95-6		50	37	1148	1421.5	2569.5	186.5	192	189
86 BHE(L) 95-6		60	45	1274	1574	2848	186.5	192	208
86 BHE(L) 95-8	8"	75	55	1405	1204	2609	195	197.5	137.5
86 BHE(L) 95-9		100	75	1531	1395	2926	195	197.5	280
86 BHE(L) 95-10		100	75	1657	1395	3052	195	197.5	285
86 BHE(L) 95-11		100	75	1783	1395	3178	195	197.5	290
86 BHE(L) 95-12		125	93	1909	1747	3656	195	197.5	373
86 BHE(L) 95-13		125	93	2035	1747	3782	195	197.5	378
86 BHE(L) 95-14		125	93	2161	1747	3908	195	197.5	383
86 BHE(L) 95-15		150	110	2287	1975.5	4262.5	195	197.5	431
86 BHE(L) 95-16	150	110	2413	1975.5	4388.5	195	197.5	435.5	

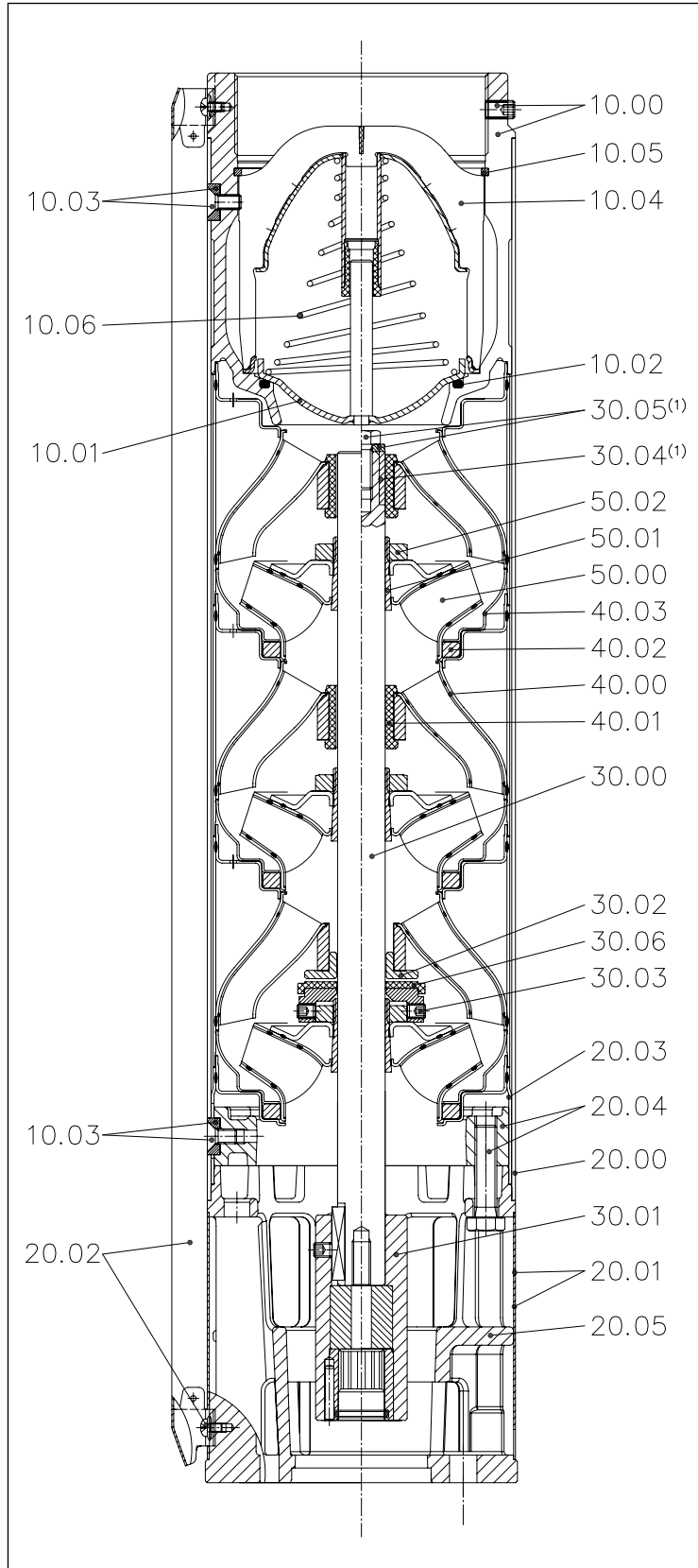
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8BHE(L)

8" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

SECTIONAL VIEW



MATERIALS TABLE

Ref.	Name	Material	
10.00	Discharge head 5"	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
10.01	Valve	EN 1.4401 (AISI 316)	
10.02	O-Ring	Nitrile rubber (NBR)	
10.03	Screw and inserts locking outer case	EN 1.4401 (AISI 316)	
10.04	Valve seat	EN 1.4401 (AISI 316)	
10.05	Seeger Ring	EN 1.4401 (AISI 316)	
10.06	Spring	EN 1.4401 (AISI 316)	
20.00	Outer casing	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
20.01	Strainer	EN 1.4401 (AISI 316)	
20.02	Cable cover	EN 1.4401 (AISI 316)	
20.03	Spacer	EN 1.4401 (AISI 316)	
20.04	Flange and bolt	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
20.05	Motor bracket	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
30.00	Shaft	EN 1.4460 (AISI 329)	
30.01	Motor coupling	EN 1.4057 (AISI 431)+	EN 1.4401 (AISI 316)+
30.02	Upper Up-thrust washer	EN 1.4460 (AISI 329)	
30.03	Lower Up-thrust washer	EN 1.4460 (AISI 329)	
30.04	Upper shaft sleeve (1)	Stainless steel with ceramic casting	
30.05	Screw and washer (1)	EN 1.4401 (AISI 316)	
30.06	Up-thrust disc	PTFE	
40.00	Stage	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
40.01	Intermediate bearing bush	Nitrile rubber (NBR)	
40.02	Liner ring	PTFE	
40.03	Flange	EN 1.4401 (AISI 316)	
50.00	Impeller	EN 1.4401 (AISI 316)	
50.01	Split cone	EN 1.4401 (AISI 316)	
50.02	Split cone nut	EN 1.4401 (AISI 316)	

[1]= Only for models with more than 8 stages



8BHE(L)

8" BOREHOLE CENTRIFUGAL PUMPS

in AISI 304 and AISI 316

ELECTRIC DATA TABLE 8BHE(L) WITH OIL FILLED MOTOR

Motor size	Motor P ₂		Thrust [N]	P ₁ [kW]	Three phase 380V		Power factor	P ₁ [kW]	Three phase 460V		Power factor
	[HP]	[kW]			I _n [A]	I _Δ [A]			I _n [A]	I _Δ [A]	
6"	4	5,5	5000/10000	5,43	9,6	10,7	0,86	3,60	7,8	8,9	0,58
	5,5	7,5	5000/10000	7,02	13	15,1	0,82	7,19	11	12,6	0,82
	7,5	10	10000	9,39	17,4	19,2	0,82	9,73	14,9	16,8	0,82
	9,3	12,5	10000	11,17	20,2	22,5	0,84	12,78	19,8	22,4	0,81
	11	15	10000	13,65	25,6	29,4	0,81	13,55	21	24	0,81
	15	20	10000	18,18	34,1	38	0,81	18,20	27,2	30,6	0,84
	18,5	25	10000	21,74	39,8	45,6	0,83	22,62	33,8	38	0,84
	22	30	10000	25,84	47,3	54,6	0,83	26,58	40,2	45,5	0,83
	30	40	20000	35,29	66,2	75	0,81	35,47	53	61,8	0,84
37	50	20000	45,60	84,5	96	0,82	47,61	72	76	0,83	

ELECTRIC DATA TABLE 8BHE(L) WITH WATER FILLED MOTOR

Motor size	Motor P ₂		Thrust [N]	P ₁ [kW]	Three phase 460V		Power factor
	[HP]	[kW]			I _n [A]	I _Δ [A]	
6"	4	5,5	15500	5,49	8,3	43,3	0,83
	5,5	7,5	15500	8,13	12,3	65	0,83
	7,5	10	15500	10,9	16,1	86	0,85
	9,3	12,5	15500	13,05	19,5	118	0,84
	11	15	15500	16,05	23,7	133	0,85
	15	20	15500	21	30,3	181	0,87
8"	18,5	25	15500	25,99	37,5	240	0,87
	22	30	15500	31,33	45,2	284	0,87
	30	40	27500	42,21	61,6	397	0,86
	37	50	27500	51,15	77	414	0,85
	45	60	27500	61,63	91	518	0,85
	45	60	45000	58,24	86	658	0,85
	55	75	45000	74,17	107	864	0,87
	75	100	45000	98,43	142	1211	0,87
	93	125	45000	125,82	188	1318	0,84
	110	150	45000	150,06	219	1620	0,86

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CABLES DIMENSIONING FOR 4" - 6" MOTORS (OIL FILLED)

CABLE SELECTION

example: 6" Motor 15 kW - 380-460V three phase - Cable length 94 m - 4x10 mm²

Motor	HP	kW	Type of cable									
			4x1	4x1,5	4x2	4x2,5	4x4	4x6	4x10	4x16	4x25	4x35
4" type	5.5	4	31	46	62	77	124	186	310	496	-	-
	7.5	5.5	-	33	45	56	90	135	225	360	-	-
6" type	5.5	4	-	-	-	79	126	189	316	-	-	-
	7.5	5.5	-	-	-	61	97	146	244	391	-	-
	10	7.5	-	-	-	45	73	109	182	292	-	-
	15	11	-	-	-	-	50	75	125	201	314	440
	20	15	-	-	-	-	-	56	94	151	236	330
6" type	25	18.5	-	-	-	-	-	-	79	126	197	276
	30	22	-	-	-	-	-	-	66	106	166	232
	40	30	-	-	-	-	-	-	-	390	121	170

CABLES DIMENSIONING FOR 4" - 6" - 8" MOTORS (WATER FILLED)

CABLE SELECTION

example: Motor 45 kW - 380-460V three phase - cable length 338 m - 4x120 mm²

Motor	HP	kW	Type of cable																			
			4x1	4x1,5	4x2	4x2,5	4x4	4x6	4x10	4x16	4x25	4x35	4x50	4x70	4x95	4x120	4x150	4x185	4x240	4x300	4x400	
4" type	4	4	34	51	68	85	135	203	338	541	-	-	-	-	-	-	-	-	-	-	-	-
	5.5	5.5	-	40	53	66	106	159	266	425	-	-	-	-	-	-	-	-	-	-	-	-
6" type	4	4	31	47	-	78	125	188	314	503	-	-	-	-	-	-	-	-	-	-	-	-
	5.5	5.5	-	31	-	52	84	126	211	337	-	-	-	-	-	-	-	-	-	-	-	-
	7.5	7.5	-	-	-	35	56	84	140	224	-	-	-	-	-	-	-	-	-	-	-	-
	11	11	-	-	-	-	42	64	107	171	267	374	-	-	-	-	-	-	-	-	-	-
	15	15	-	-	-	-	-	49	81	130	204	286	408	-	-	-	-	-	-	-	-	-
	18.5	18.5	-	-	-	-	-	39	66	105	165	231	330	462	-	-	-	-	-	-	-	-
	22	22	-	-	-	-	-	-	54	87	137	191	274	383	-	-	-	-	-	-	-	-
	30	30	-	-	-	-	-	-	64	101	141	202	282	383	484	-	-	-	-	-	-	-
6" type	37	37	-	-	-	-	-	-	82	115	164	230	313	395	494	609	-	-	-	-	-	-
	45	45	-	-	-	-	-	-	-	70	98	141	197	267	338	423	521	676	-	-	-	
	55	55	-	-	-	-	-	-	-	-	78	112	157	214	270	338	417	541	676	-	-	
	75	75	-	-	-	-	-	-	-	-	-	-	119	161	204	255	315	409	511	682	-	
	93	93	-	-	-	-	-	-	-	-	-	-	-	129	163	204	252	327	408	545	-	
8" type	110	110	-	-	-	-	-	-	-	-	-	-	-	-	136	171	211	273	342	456	-	

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