JOVAL
Tel: +351 253 490 740 | Email: joval@joval.pt

TECHNICAL DATASHEET

Cast Iron Hydraulic Ends 6″ to 10″

Heavy-duty cast iron hydraulic ends for agricultural and industrial applications.

JOVAL Cast Iron Hydraulic Ends (6″ to 10″) are multistage centrifugal hydraulic ends built for high performance and mechanical strength. With flow rates up to 400 m³/h and head up to 398 m, they are designed for deep borehole water extraction, large-area irrigation and demanding industrial processes. Built with GG25 cast iron bodies and impellers and AISI 304 stainless steel internal components, ensuring durability in urban, rural and fire-fighting applications.

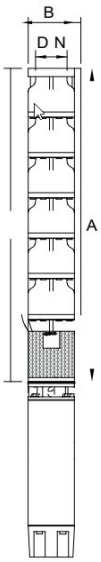
APPLICATIONS

- Clean water abstraction from deep boreholes, wells, dams and lakes.
- Urban and rural water supply.
- Large-scale agricultural irrigation.
- Fire-fighting systems.
- Industrial processes and pressurization systems.

TECHNICAL DATA

TECHNICAL SPECIFICATIONS

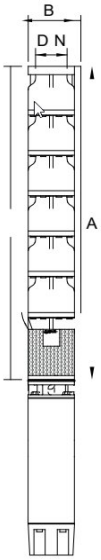
Max Flow	Up to 400 m³/h a 2850 rpm
Max Head	Up to 398 m
Discharge	3”, 4”, 5”, 6” conforme o modelo (6″ a 10″)
Standards	ISO 9906
Type	Multistage centrifugal pump
Suction and discharge body	GG25 grey cast iron
Impeller	GG25 grey cast iron
Shaft, filter and coupling	Stainless Steel AISI 304 (1.4301)
Valve, cable guard and bolts	Stainless Steel AISI 304 (1.4301)
Wear bushings	Anti-friction rubber with metallic core
Coupling	NEMA standard (1-18-388)
Efficiency Index (MEI)	≥ 0,70
Warranty	24 months



Model	DN	Height A (mm)	Height B (mm)	Weight (kg)
650 02	3"	607,0	-	27,0
650 03	3"	724,0	-	33,0
650 04	3"	841,0	-	39,0
650 05	3"	958,0	-	45,0
650 06	3"	1.075,0	-	51,0
650 07	3"	1.192,0	-	57,0
650 08	3"	1.309,0	-	63,0
650 09	3"	1.426,0	-	69,0
650 10	3"	1.543,0	-	75,0
650 11	3"	1.660,0	-	81,0
650 12	3"	1.777,0	-	87,0
650 13	3"	1.894,0	-	93,0
650 14	3"	2.011,0	-	99,0
650 15	3"	2.128,0	-	105,0
650 16	3"	2.245,0	-	111,0
650 17	3"	2.362,0	-	117,0
650 18	3"	2.479,0	-	122,0
650 19	3"	2.596,0	-	128,0
650 20	3"	2.713,0	-	134,0
650 21	3"	2.830,0	-	140,0
650 22	3"	2.947,0	-	146,0
650 23	3"	3.050,0	-	152,0
650 24	3"	3.167,0	-	158,0
650 25	3"	3.284,0	-	164,0

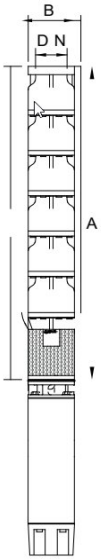
DIMENSÕES

DIMENSÕES



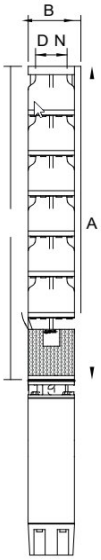
Model	DN	Height A (mm)	Height B (mm)	Weight (kg)
660 02R	3"	607,0	-	27,0
660 03R	3"	724,0	-	33,0
660 04R	3"	841,0	-	39,0
660 05R	3"	958,0	-	45,0
660 06R	3"	1.075,0	-	51,0
660 07R	3"	1.192,0	-	57,0
660 08R	3"	1.309,0	-	63,0
660 09	3"	1.426,0	-	69,0
660 10R	3"	1.543,0	-	75,0
660 11	3"	1.660,0	-	81,0
660 12	3"	1.777,0	-	87,0
660 13	3"	1.894,0	-	93,0
660 14	3"	2.011,0	-	99,0
660 15	3"	2.128,0	-	105,0
660 16	3"	2.245,0	-	111,0
660 17	3"	2.362,0	-	117,0
660 18	3"	2.479,0	-	122,0
660 19	3"	2.596,0	-	128,0
660 20	3"	2.713,0	-	134,0
660 21	3"	2.830,0	-	140,0
660 22	3"	2.947,0	-	146,0

DIMENSÕES



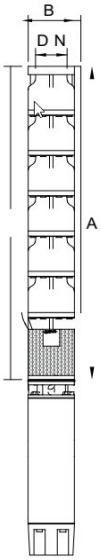
Model	DN	Height A (mm)	Height B (mm)	Weight (kg)
665 02	3"	607,0	-	27,0
665 03	3"	724,0	-	33,0
665 04	3"	841,0	-	39,0
665 05	3"	958,0	-	45,0
665 06	3"	1.075,0	-	51,0
665 07	3"	1.192,0	-	57,0
665 08	3"	1.309,0	-	63,0
665 09	3"	1.426,0	-	69,0
665 10	3"	1.543,0	-	75,0
665 11	3"	1.660,0	-	81,0
665 12	3"	1.777,0	-	87,0
665 13	3"	1.894,0	-	93,0
665 14	3"	2.011,0	-	99,0
665 15	3"	2.128,0	-	105,0
665 16	3"	2.245,0	-	111,0
665 17	3"	2.362,0	-	117,0
665 18	3"	2.479,0	-	122,0
665 19	3"	2.596,0	-	128,0
665 20	3"	2.713,0	-	134,0
665 21	3"	2.830,0	-	140,0

DIMENSÕES



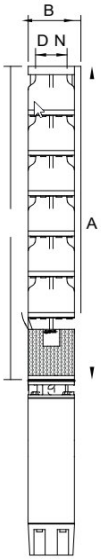
Model	DN	Height A (mm)	Height B (mm)	Weight (kg)
675 01	4"	490,0	-	21,0
675 02	4"	607,0	-	27,0
675 03	4"	724,0	-	33,0
675 04	4"	841,0	-	39,0
675 05	4"	958,0	-	45,0
675 06	4"	1.075,0	-	51,0
675 07	4"	1.192,0	-	57,0
675 08	4"	1.309,0	-	63,0
675 09	4"	1.426,0	-	69,0
675 10	4"	1.543,0	-	75,0
675 11	4"	1.660,0	-	81,0
675 12	4"	1.777,0	-	87,0
675 13	4"	1.894,0	-	93,0
675 14	4"	2.011,0	-	99,0
675 15	4"	2.128,0	-	105,0
675 16	4"	2.245,0	-	111,0
675 17	4"	2.362,0	-	117,0
675 18	4"	2.479,0	-	122,0

DIMENSÕES



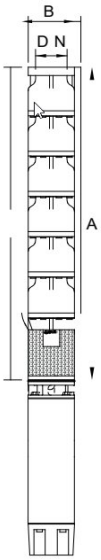
Model	DN	Height A (mm)	Height B (mm)	Weight (kg)
785 01	4"	543,0	-	32,0
785 02	4"	678,0	-	41,0
785 03	4"	813,0	-	51,0
785 04	4"	948,0	-	60,0
785 05	4"	1.083,0	-	70,0
785 06	4"	1.218,0	-	79,0
785 07	4"	1.353,0	-	89,0
785 08	4"	1.488,0	-	98,0
785 09	4"	1.623,0	-	108,0
785 10	4"	1.758,0	-	117,0
785 11	4"	1.893,0	-	127,0
785 12	4"	2.028,0	-	136,0
785 13	4"	2.163,0	-	146,0
785 14	4"	2.298,0	-	155,0
785 15	4"	2.433,0	-	165,0
785 16	4"	2.568,0	-	174,0
785 17	4"	2.703,0	-	184,0
785 18	4"	2.838,0	-	193,0
785 19	4"	2.973,0	-	203,0
785 20	4"	3.108,0	-	212,0
785 21	4"	3.243,0	-	222,0
785 22	4"	3.378,0	-	231,0

DIMENSÕES



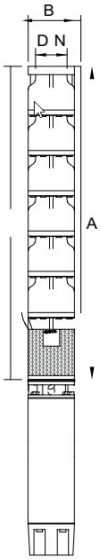
Model	DN	Height A (mm)	Height B (mm)	Weight (kg)
795 01	4"	543,0	-	32,0
795 02	4"	678,0	-	41,0
795 03	4"	813,0	-	51,0
795 04	4"	948,0	-	60,0
795 05	4"	1.083,0	-	70,0
795 06	4"	1.218,0	-	79,0
795 07	4"	1.353,0	-	89,0
795 08	4"	1.488,0	-	98,0
795 09	4"	1.623,0	-	108,0
795 10	4"	1.758,0	-	117,0
795 11	4"	1.893,0	-	127,0
795 12	4"	2.028,0	-	136,0
795 13	4"	2.163,0	-	146,0
795 14	4"	2.298,0	-	155,0
795 15	4"	2.433,0	-	165,0
795 16	4"	2.568,0	-	174,0
795 17	4"	2.703,0	-	184,0
795 18	4"	2.838,0	-	193,0

DIMENSÕES



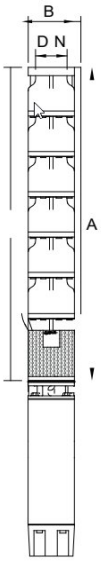
Model	DN	Height A (mm)	Height B (mm)	Weight (kg)
8120 01	5"	560,0	-	37,0
8120 02	5"	705,0	-	49,0
8120 03	5"	850,0	-	61,0
8120 04	5"	995,0	-	74,0
8120 05	5"	1.140,0	-	86,0
8120 06	5"	1.285,0	-	98,0
8120 07	5"	1.430,0	-	110,0
8120 08	5"	1.575,0	-	122,0
8120 09	5"	1.720,0	-	135,0
8120 10	5"	1.865,0	-	147,0
8120 11	5"	2.010,0	-	159,0
8120 12	5"	2.155,0	-	171,0
8120 13	5"	2.300,0	-	184,0
8120 14	5"	2.445,0	-	196,0

DIMENSÕES



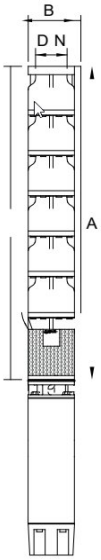
Model	DN	Height A (mm)	Height B (mm)	Weight (kg)
8150 01	5"	560,0	-	37,0
8150 02	5"	705,0	-	49,0
8150 03	5"	850,0	-	61,0
8150 04	5"	995,0	-	74,0
8150 05	5"	1.140,0	-	86,0
8150 06	5"	1.285,0	-	98,0
8150 07	5"	1.430,0	-	110,0
8150 08	5"	1.575,0	-	122,0
8150 09	5"	1.720,0	-	135,0
8150 10	5"	1.865,0	-	147,0
8150 11	5"	2.010,0	-	159,0
8150 12	5"	2.155,0	-	171,0
8150 13	5"	2.300,0	-	184,0

DIMENSÕES



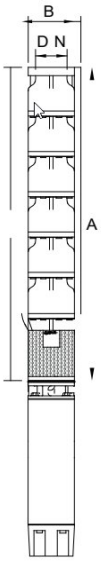
Model	DN	Height A (mm)	Height B (mm)	Weight (kg)
10200 01D	6"	770,0	-	70,0
10200 01A	6"	770,0	-	70,0
10200 02D	6"	950,0	-	92,0
10200 02C	6"	950,0	-	92,0
10200 03D	6"	1.130,0	-	114,0
10200 03A	6"	1.130,0	-	114,0
10200 04D	6"	1.310,0	-	136,0
10200 04C	6"	1.310,0	-	136,0
10200 04A	6"	1.310,0	-	136,0
10200 05B	6"	1.490,0	-	158,0
10200 06A	6"	1.670,0	-	180,0
10200 07A	6"	1.850,0	-	202,0
10200 08A	6"	2.030,0	-	224,0

DIMENSÕES



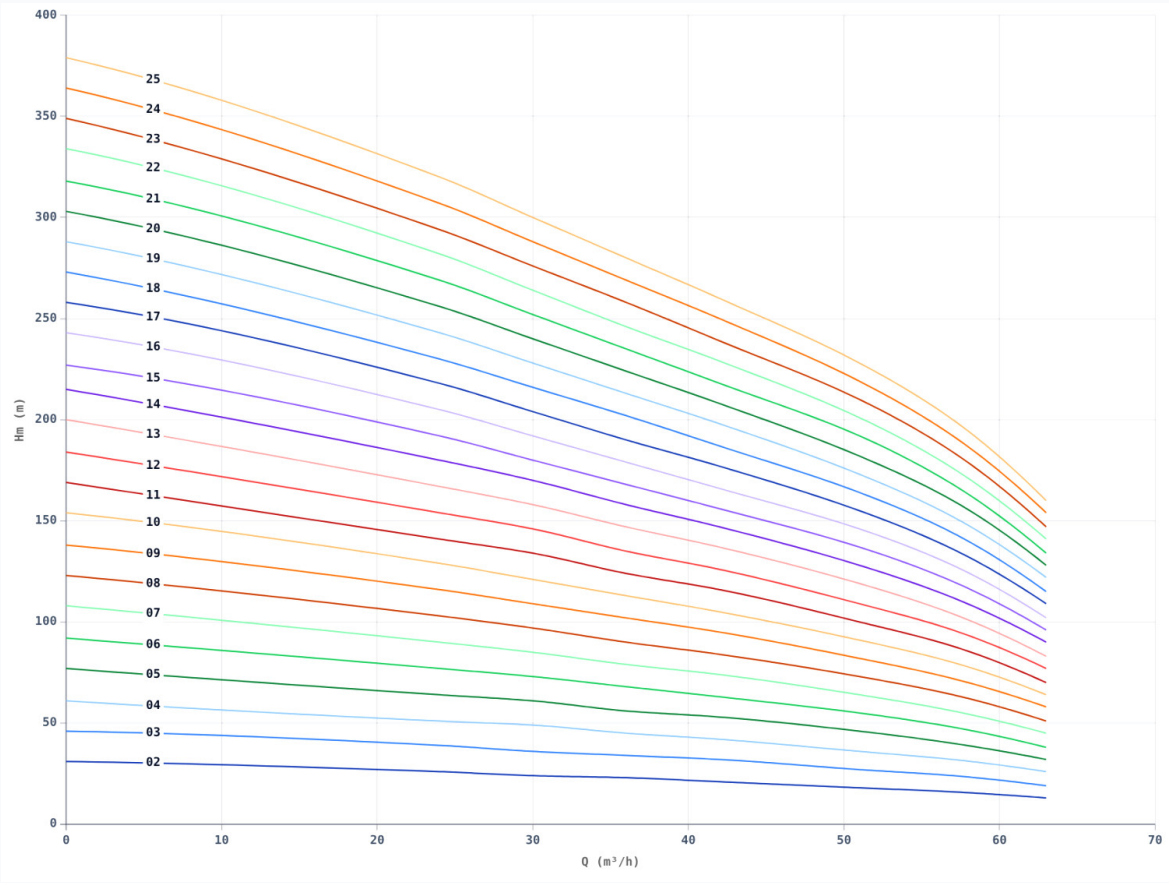
Model	DN	Height A (mm)	Height B (mm)	Weight (kg)
10270 05A	6"	1.490,0	-	158,0
10270 06B	6"	1.670,0	-	180,0
10270 06A	6"	1.670,0	-	180,0
10270 07A	6"	1.850,0	-	202,0
10270 08A	6"	2.030,0	-	224,0

DIMENSÕES



Model	DN	Height A (mm)	Height B (mm)	Weight (kg)
10300 01E	6"	770,0	-	71,0
10300 01C	6"	770,0	-	71,0
10300 01A	6"	770,0	-	71,0
10300 02D	6"	950,0	-	94,0
10300 02C	6"	950,0	-	94,0
10300 02A	6"	950,0	-	94,0
10300 03E	6"	1.130,0	-	117,0
10300 03D	6"	1.130,0	-	117,0
10300 03B	6"	1.130,0	-	117,0
10300 03A	6"	1.130,0	-	117,0
10300 04C	6"	1.275,0	-	129,0
10300 04A	6"	1.275,0	-	129,0
10300 05B	6"	1.420,0	-	141,0
10300 05A	6"	1.420,0	-	141,0
10300 06B	6"	1.565,0	-	153,0

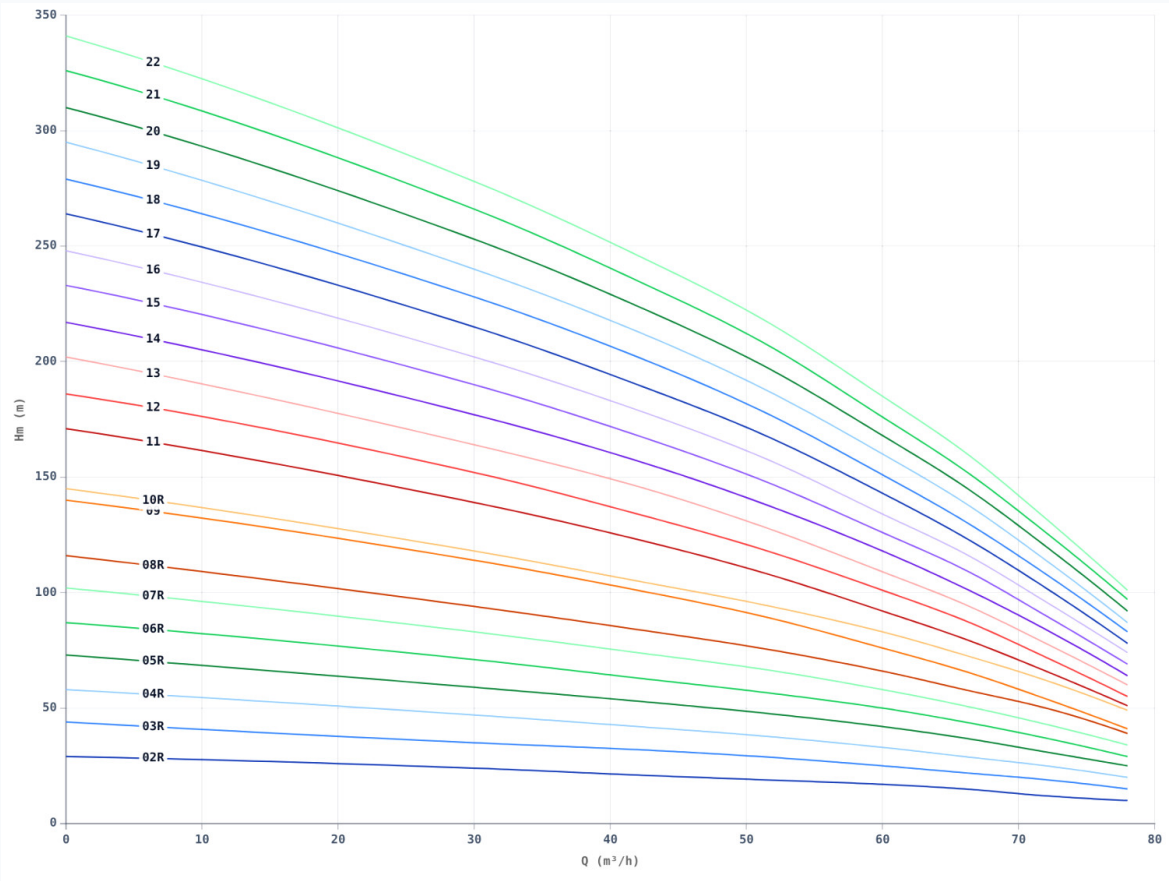
CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	Amperage	m³/h	0	24	30	36	42	51	57	63
				Hm (m)								
650 02	4,00	5,50	-		31,0	26,0	24,0	23,0	21,0	18,0	16,0	13,0
650 03	5,50	7,00	-		46,0	39,0	36,0	34,0	32,0	27,0	24,0	19,0
650 04	7,50	10,00	-		61,0	51,0	49,0	45,0	42,0	36,0	32,0	26,0
650 05	9,30	12,50	-		77,0	64,0	61,0	56,0	53,0	46,0	40,0	32,0
650 06	11,00	15,00	-		92,0	77,0	73,0	68,0	63,0	55,0	48,0	38,0
650 07	13,00	17,50	-		108,0	90,0	85,0	79,0	74,0	64,0	56,0	45,0
650 08	15,00	20,00	-		123,0	103,0	97,0	90,0	84,0	73,0	64,0	51,0
650 09	18,50	25,00	-		138,0	116,0	109,0	102,0	95,0	82,0	72,0	58,0
650 10	18,50	25,00	-		154,0	129,0	121,0	113,0	105,0	91,0	80,0	64,0
650 11	22,00	30,00	-		169,0	141,0	134,0	124,0	116,0	100,0	88,0	70,0
650 12	22,00	30,00	-		184,0	154,0	146,0	135,0	126,0	109,0	96,0	77,0
650 13	26,00	35,00	-		200,0	167,0	158,0	147,0	137,0	119,0	104,0	83,0
650 14	26,00	35,00	-		215,0	180,0	170,0	158,0	147,0	128,0	112,0	90,0
650 15	30,00	40,00	-		227,0	192,0	180,0	168,0	156,0	137,0	120,0	96,0
650 16	30,00	40,00	-		243,0	205,0	192,0	179,0	166,0	146,0	128,0	102,0
650 17	30,00	40,00	-		258,0	218,0	204,0	190,0	177,0	155,0	136,0	109,0
650 18	37,00	50,00	-		273,0	230,0	216,0	202,0	187,0	164,0	144,0	115,0
650 19	37,00	50,00	-		288,0	243,0	228,0	213,0	198,0	173,0	152,0	122,0
650 20	37,00	50,00	-		303,0	256,0	240,0	224,0	208,0	182,0	160,0	128,0
650 21	37,00	50,00	-		318,0	269,0	252,0	235,0	218,0	192,0	168,0	134,0
650 22	45,00	60,00	-		334,0	282,0	264,0	246,0	229,0	201,0	176,0	141,0
650 23	45,00	60,00	-		349,0	294,0	276,0	258,0	239,0	210,0	184,0	147,0
650 24	45,00	60,00	-		364,0	307,0	288,0	269,0	250,0	219,0	192,0	154,0
650 25	45,00	60,00	-		379,0	320,0	300,0	280,0	260,0	228,0	200,0	160,0

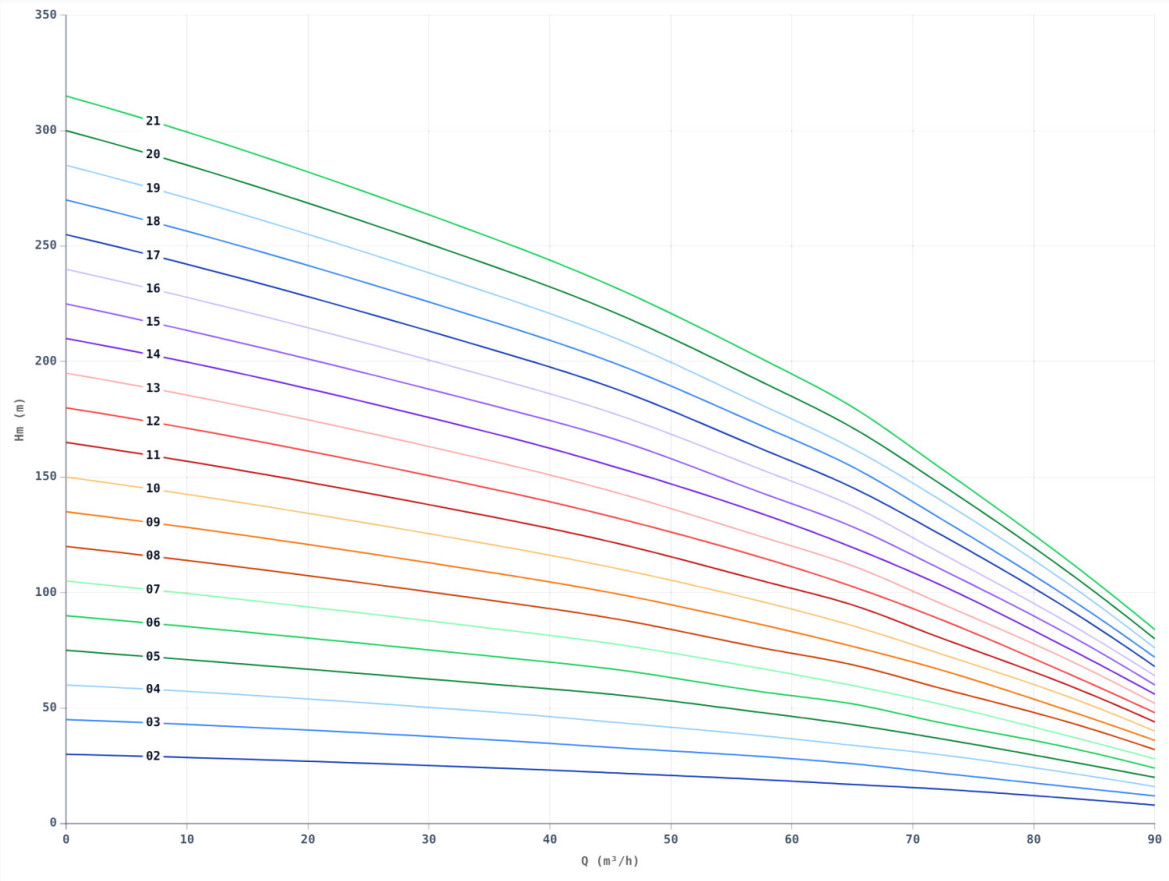
CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	Amperage	m³/h	0	30	42	51	60	66	72	78
				Hm (m)								
660 02R	4,00	5,50	-		29,0	24,0	21,0	19,0	17,0	15,0	12,0	10,0
660 03R	5,50	7,00	-		44,0	35,0	32,0	29,0	25,0	22,0	19,0	15,0
660 04R	7,50	10,00	-		58,0	47,0	42,0	38,0	33,0	29,0	25,0	20,0
660 05R	9,30	12,50	-		73,0	59,0	53,0	48,0	42,0	37,0	31,0	25,0
660 06R	11,00	15,00	-		87,0	71,0	63,0	57,0	50,0	44,0	37,0	29,0
660 07R	13,00	17,50	-		102,0	83,0	74,0	67,0	58,0	51,0	43,0	34,0
660 08R	15,00	20,00	-		116,0	94,0	84,0	76,0	66,0	58,0	50,0	39,0
660 09	18,50	25,00	-		140,0	114,0	101,0	90,0	76,0	66,0	54,0	41,0
660 10R	18,50	25,00	-		145,0	118,0	105,0	95,0	83,0	73,0	62,0	49,0
660 11	22,00	30,00	-		171,0	139,0	123,0	109,0	92,0	80,0	66,0	51,0
660 12	26,50	35,00	-		186,0	152,0	134,0	119,0	101,0	88,0	72,0	55,0
660 13	26,50	35,00	-		202,0	164,0	146,0	129,0	109,0	95,0	78,0	60,0
660 14	30,00	40,00	-		217,0	177,0	157,0	139,0	118,0	102,0	84,0	64,0
660 15	30,00	40,00	-		233,0	190,0	168,0	149,0	126,0	110,0	90,0	69,0
660 16	37,00	50,00	-		248,0	202,0	179,0	159,0	134,0	117,0	96,0	74,0
660 17	37,00	50,00	-		264,0	215,0	190,0	169,0	143,0	124,0	102,0	78,0
660 18	37,00	50,00	-		279,0	228,0	202,0	179,0	151,0	131,0	108,0	83,0
660 19	37,00	50,00	-		295,0	240,0	213,0	189,0	160,0	139,0	114,0	87,0
660 20	45,00	60,00	-		310,0	253,0	224,0	199,0	168,0	146,0	120,0	92,0
660 21	45,00	60,00	-		326,0	266,0	235,0	209,0	176,0	153,0	126,0	97,0
660 22	45,00	60,00	-		341,0	278,0	246,0	219,0	185,0	161,0	132,0	101,0

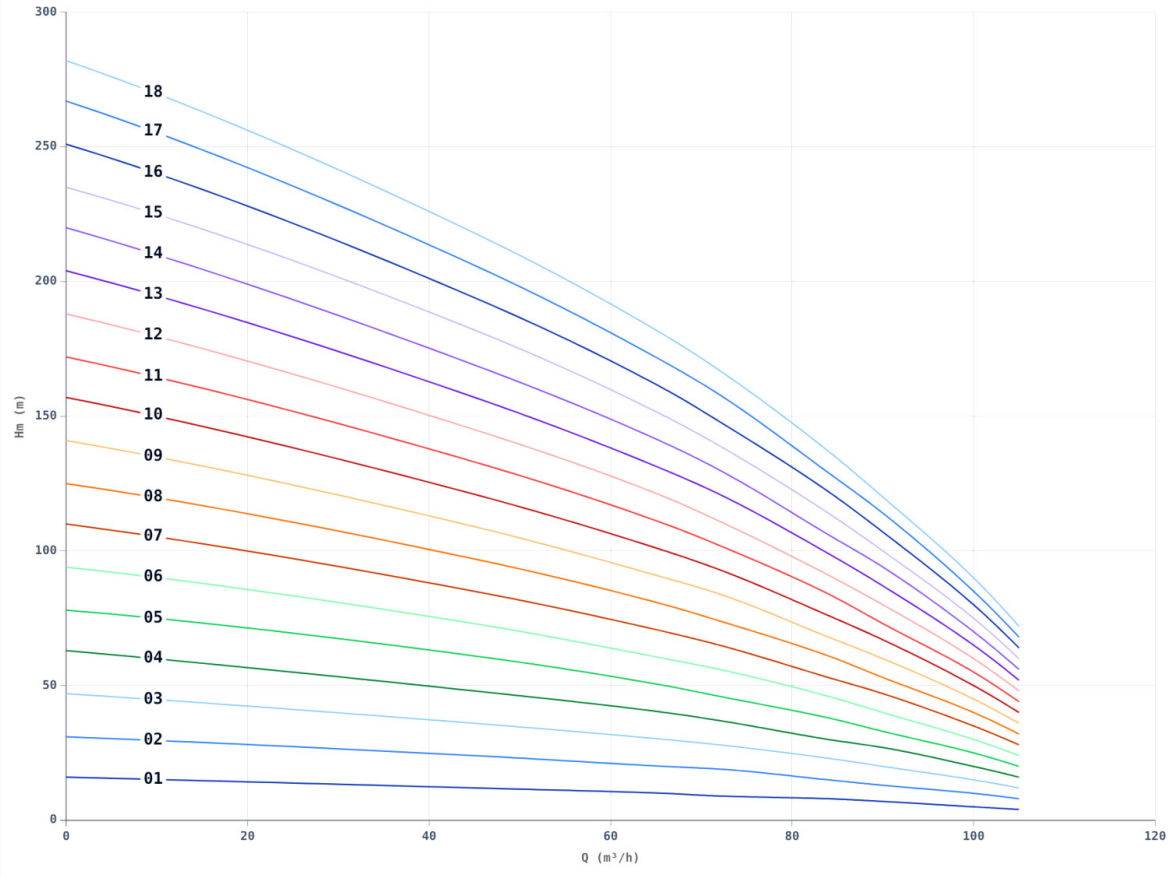
CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	Amperage	m³/h	0	36	45	57.6	64.8	72	82.8	90
				Hm (m)								
665 02	4,00	5,50	-		30,0	24,0	22,0	19,0	17,0	15,0	11,0	8,0
665 03	7,50	10,00	-		45,0	36,0	33,0	29,0	26,0	22,0	16,0	12,0
665 04	9,30	12,50	-		60,0	48,0	44,0	38,0	34,0	30,0	22,0	16,0
665 05	11,00	15,00	-		75,0	60,0	56,0	48,0	43,0	37,0	27,0	20,0
665 06	13,00	17,50	-		90,0	72,0	67,0	57,0	52,0	44,0	33,0	24,0
665 07	15,00	20,00	-		105,0	84,0	78,0	67,0	60,0	52,0	38,0	28,0
665 08	18,50	25,00	-		120,0	96,0	89,0	76,0	69,0	59,0	44,0	32,0
665 09	22,00	30,00	-		135,0	108,0	100,0	86,0	77,0	67,0	49,0	36,0
665 10	26,50	35,00	-		150,0	120,0	111,0	96,0	86,0	74,0	55,0	40,0
665 11	26,50	35,00	-		165,0	132,0	122,0	105,0	95,0	81,0	60,0	44,0
665 12	30,00	40,00	-		180,0	144,0	133,0	115,0	103,0	89,0	65,0	48,0
665 13	30,00	40,00	-		195,0	156,0	144,0	124,0	112,0	96,0	71,0	52,0
665 14	37,00	50,00	-		210,0	168,0	155,0	134,0	120,0	104,0	76,0	56,0
665 15	37,00	50,00	-		225,0	180,0	167,0	143,0	129,0	111,0	82,0	60,0
665 16	37,00	50,00	-		240,0	192,0	178,0	153,0	138,0	118,0	87,0	64,0
665 17	37,00	50,00	-		255,0	204,0	189,0	162,0	146,0	126,0	93,0	68,0
665 18	45,00	60,00	-		270,0	216,0	200,0	172,0	155,0	133,0	98,0	72,0
665 19	45,00	60,00	-		285,0	228,0	211,0	181,0	163,0	141,0	104,0	76,0
665 20	45,00	60,00	-		300,0	240,0	222,0	191,0	172,0	148,0	109,0	80,0
665 21	45,00	60,00	-		315,0	252,0	233,0	201,0	181,0	155,0	114,0	84,0

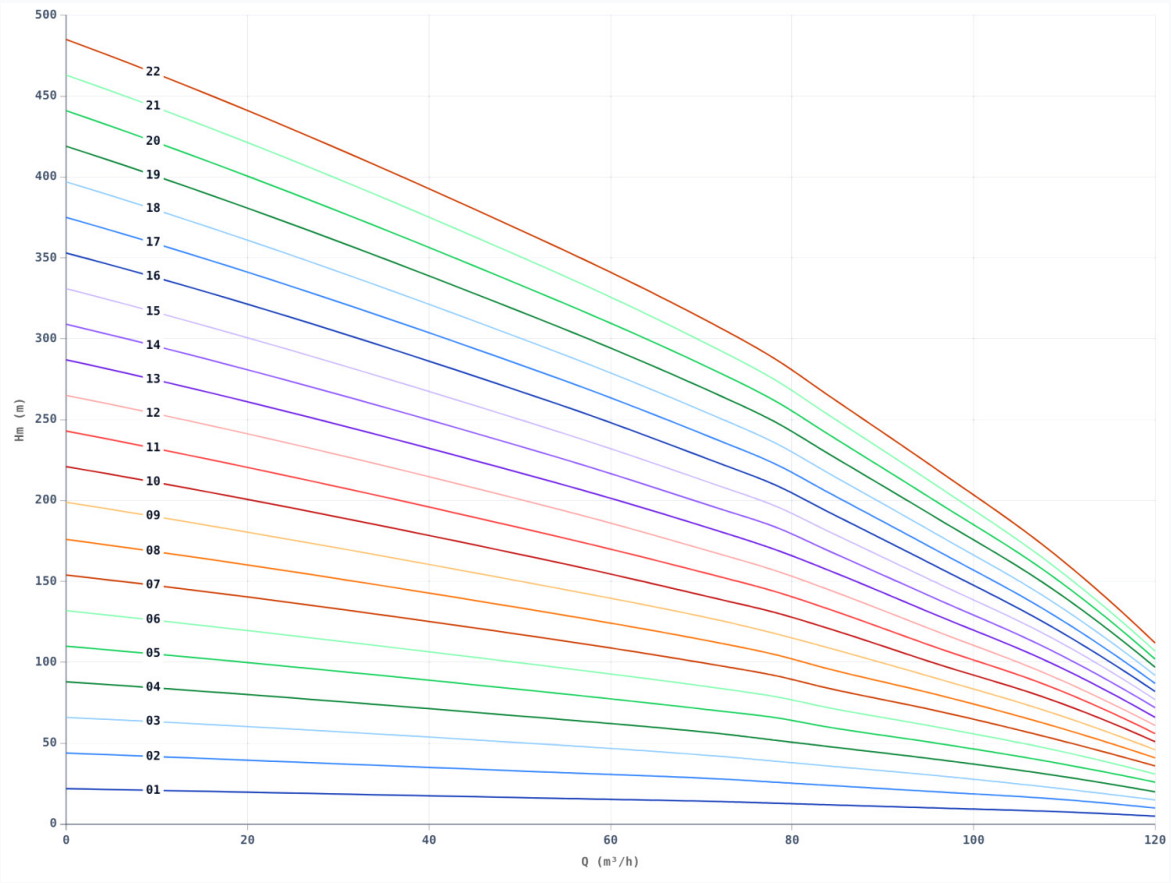
CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	Amperage	m³/h	0	45	66	72	84	90	100	105
				Hm (m)								
675 01	4,00	5,50	-		16,0	12,0	10,0	9,0	8,0	7,0	5,0	4,0
675 02	5,50	7,50	-		31,0	24,0	20,0	19,0	15,0	13,0	10,0	8,0
675 03	9,30	12,50	-		47,0	36,0	30,0	28,0	23,0	20,0	15,0	12,0
675 04	11,00	15,00	-		63,0	48,0	40,0	37,0	30,0	27,0	20,0	16,0
675 05	13,00	17,50	-		78,0	61,0	50,0	46,0	38,0	33,0	25,0	20,0
675 06	15,00	20,00	-		94,0	73,0	60,0	56,0	46,0	40,0	30,0	24,0
675 07	18,50	25,00	-		110,0	85,0	70,0	65,0	53,0	47,0	35,0	28,0
675 08	22,00	30,00	-		125,0	97,0	80,0	74,0	61,0	53,0	40,0	32,0
675 09	22,00	30,00	-		141,0	109,0	90,0	84,0	68,0	60,0	45,0	36,0
675 10	26,50	35,00	-		157,0	121,0	100,0	93,0	76,0	67,0	50,0	40,0
675 11	30,00	40,00	-		172,0	133,0	110,0	102,0	84,0	73,0	55,0	44,0
675 12	30,00	40,00	-		188,0	145,0	120,0	111,0	91,0	80,0	60,0	48,0
675 13	37,00	50,00	-		204,0	157,0	130,0	121,0	99,0	87,0	65,0	52,0
675 14	37,00	50,00	-		220,0	169,0	140,0	130,0	106,0	94,0	70,0	56,0
675 15	37,00	50,00	-		235,0	182,0	150,0	139,0	114,0	100,0	75,0	60,0
675 16	45,00	60,00	-		251,0	194,0	160,0	148,0	122,0	107,0	80,0	64,0
675 17	45,00	60,00	-		267,0	206,0	170,0	158,0	129,0	114,0	85,0	68,0
675 18	45,00	60,00	-		282,0	218,0	180,0	167,0	137,0	120,0	90,0	72,0

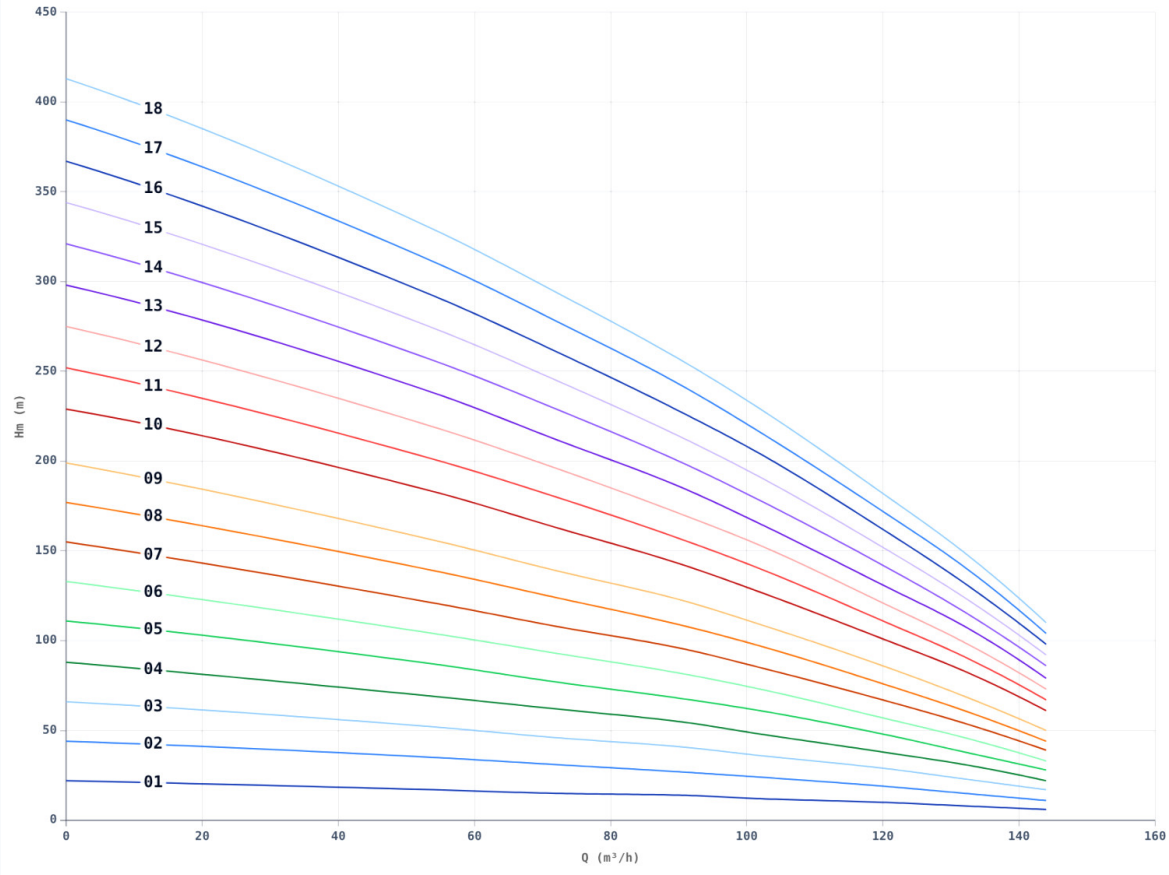
CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	Amperage	m³/h	0	54	72	78	84	96	108	120
				Hm (m)								
785 01	5,50	7,50	-		22,0	16,0	14,0	13,0	12,0	10,0	8,0	5,0
785 02	9,30	12,50	-		44,0	32,0	28,0	26,0	24,0	20,0	16,0	10,0
785 03	13,00	17,50	-		66,0	49,0	42,0	39,0	36,0	30,0	23,0	15,0
785 04	18,50	25,00	-		88,0	65,0	56,0	52,0	48,0	40,0	31,0	20,0
785 05	22,00	30,00	-		110,0	81,0	70,0	66,0	60,0	50,0	39,0	26,0
785 06	26,50	35,00	-		132,0	97,0	84,0	79,0	72,0	60,0	47,0	31,0
785 07	30,00	40,00	-		154,0	114,0	98,0	92,0	84,0	70,0	54,0	36,0
785 08	37,00	50,00	-		176,0	130,0	112,0	105,0	96,0	80,0	62,0	41,0
785 09	37,00	50,00	-		199,0	146,0	126,0	118,0	109,0	90,0	70,0	46,0
785 10	45,00	60,00	-		221,0	162,0	139,0	131,0	121,0	99,0	78,0	51,0
785 11	45,00	60,00	-		243,0	178,0	153,0	144,0	133,0	109,0	86,0	56,0
785 12	55,00	75,00	-		265,0	195,0	167,0	157,0	145,0	119,0	93,0	61,0
785 13	55,00	75,00	-		287,0	211,0	181,0	170,0	157,0	129,0	101,0	66,0
785 14	60,00	80,00	-		309,0	227,0	195,0	184,0	169,0	139,0	109,0	72,0
785 15	60,00	80,00	-		331,0	243,0	209,0	197,0	181,0	149,0	117,0	77,0
785 16	67,00	90,00	-		353,0	260,0	223,0	210,0	193,0	159,0	124,0	82,0
785 17	67,00	90,00	-		375,0	276,0	237,0	223,0	205,0	169,0	132,0	87,0
785 18	75,00	100,00	-		397,0	292,0	251,0	236,0	217,0	179,0	140,0	92,0
785 19	75,00	100,00	-		419,0	308,0	265,0	249,0	229,0	189,0	148,0	97,0
785 20	93,00	125,00	-		441,0	324,0	279,0	262,0	241,0	199,0	156,0	102,0
785 21	93,00	125,00	-		463,0	341,0	293,0	275,0	253,0	209,0	163,0	107,0
785 22	93,00	125,00	-		485,0	357,0	307,0	288,0	265,0	219,0	171,0	112,0

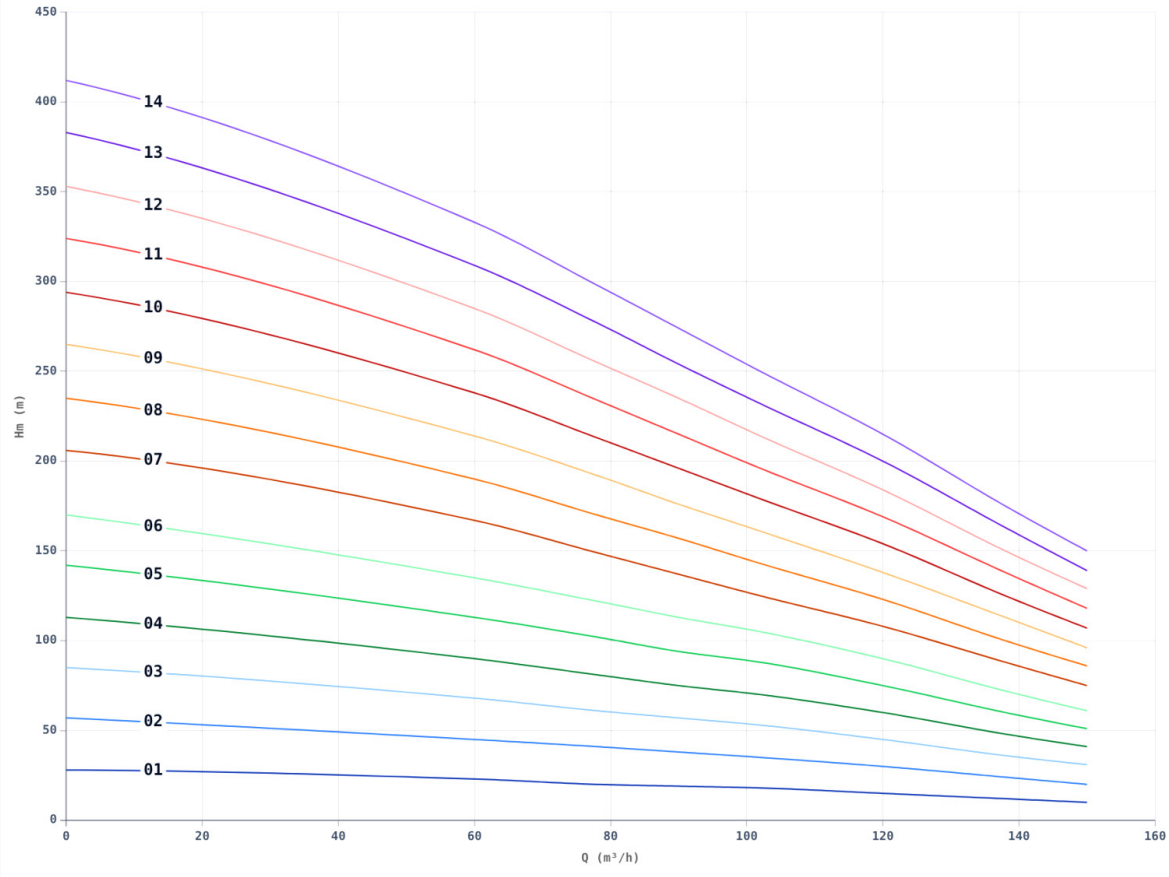
CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	Amperage	m³/h	0	54	72	90	102	120	132	144
				Hm (m)								
795 01	5,50	7,50	-		22,0	17,0	15,0	14,0	12,0	10,0	8,0	6,0
795 02	11,00	15,00	-		44,0	35,0	31,0	27,0	24,0	19,0	15,0	11,0
795 03	15,00	20,00	-		66,0	52,0	46,0	41,0	36,0	29,0	23,0	17,0
795 04	22,00	30,00	-		88,0	69,0	62,0	55,0	48,0	38,0	31,0	22,0
795 05	26,50	35,00	-		111,0	87,0	77,0	68,0	61,0	48,0	38,0	28,0
795 06	30,00	40,00	-		133,0	104,0	93,0	82,0	73,0	57,0	46,0	33,0
795 07	37,00	50,00	-		155,0	121,0	108,0	96,0	85,0	67,0	54,0	39,0
795 08	45,00	60,00	-		177,0	139,0	124,0	109,0	97,0	76,0	61,0	44,0
795 09	45,00	60,00	-		199,0	156,0	139,0	123,0	109,0	86,0	69,0	50,0
795 10	55,00	75,00	-		229,0	183,0	163,0	143,0	127,0	101,0	83,0	61,0
795 11	55,00	75,00	-		252,0	201,0	180,0	157,0	140,0	111,0	91,0	67,0
795 12	60,00	80,00	-		275,0	219,0	196,0	171,0	153,0	121,0	99,0	73,0
795 13	67,00	90,00	-		298,0	238,0	212,0	186,0	165,0	131,0	108,0	79,0
795 14	75,00	100,00	-		321,0	256,0	229,0	200,0	178,0	142,0	116,0	86,0
795 15	75,00	100,00	-		344,0	274,0	245,0	214,0	191,0	152,0	124,0	92,0
795 16	93,00	125,00	-		367,0	292,0	261,0	228,0	204,0	162,0	132,0	98,0
795 17	93,00	125,00	-		390,0	311,0	278,0	243,0	216,0	172,0	141,0	104,0
795 18	93,00	125,00	-		413,0	329,0	294,0	257,0	229,0	182,0	149,0	110,0

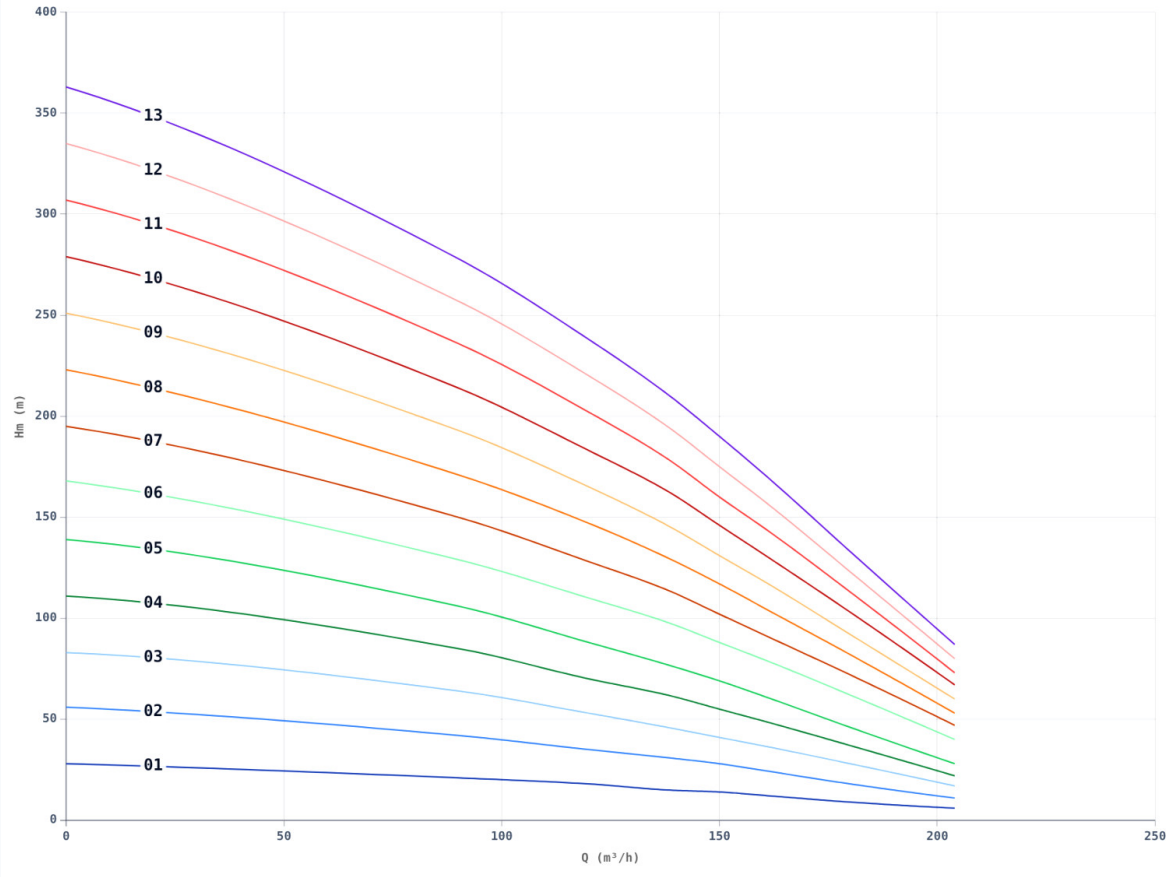
CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	Amperage	m³/h	0	60	78	90	102	120	138	150
				Hm (m)								
8120 01	7,50	10,00	-		28,0	23,0	20,0	19,0	18,0	15,0	12,0	10,0
8120 02	15,00	20,00	-		57,0	45,0	41,0	38,0	35,0	30,0	24,0	20,0
8120 03	22,00	30,00	-		85,0	68,0	61,0	57,0	53,0	45,0	36,0	31,0
8120 04	30,00	40,00	-		113,0	90,0	81,0	75,0	70,0	60,0	48,0	41,0
8120 05	37,00	50,00	-		142,0	113,0	102,0	94,0	88,0	75,0	60,0	51,0
8120 06	45,00	60,00	-		170,0	135,0	122,0	113,0	105,0	90,0	72,0	61,0
8120 07	55,00	75,00	-		206,0	167,0	149,0	137,0	125,0	108,0	88,0	75,0
8120 08	60,00	80,00	-		235,0	190,0	170,0	157,0	143,0	123,0	100,0	86,0
8120 09	67,00	90,00	-		265,0	214,0	192,0	176,0	161,0	138,0	113,0	96,0
8120 10	75,00	100,00	-		294,0	238,0	213,0	196,0	179,0	154,0	125,0	107,0
8120 11	75,00	100,00	-		324,0	262,0	234,0	215,0	196,0	169,0	138,0	118,0
8120 12	93,00	125,00	-		353,0	285,0	255,0	235,0	214,0	184,0	150,0	129,0
8120 13	93,00	125,00	-		383,0	309,0	277,0	254,0	232,0	200,0	163,0	139,0
8120 14	93,00	125,00	-		412,0	333,0	298,0	274,0	250,0	215,0	175,0	150,0

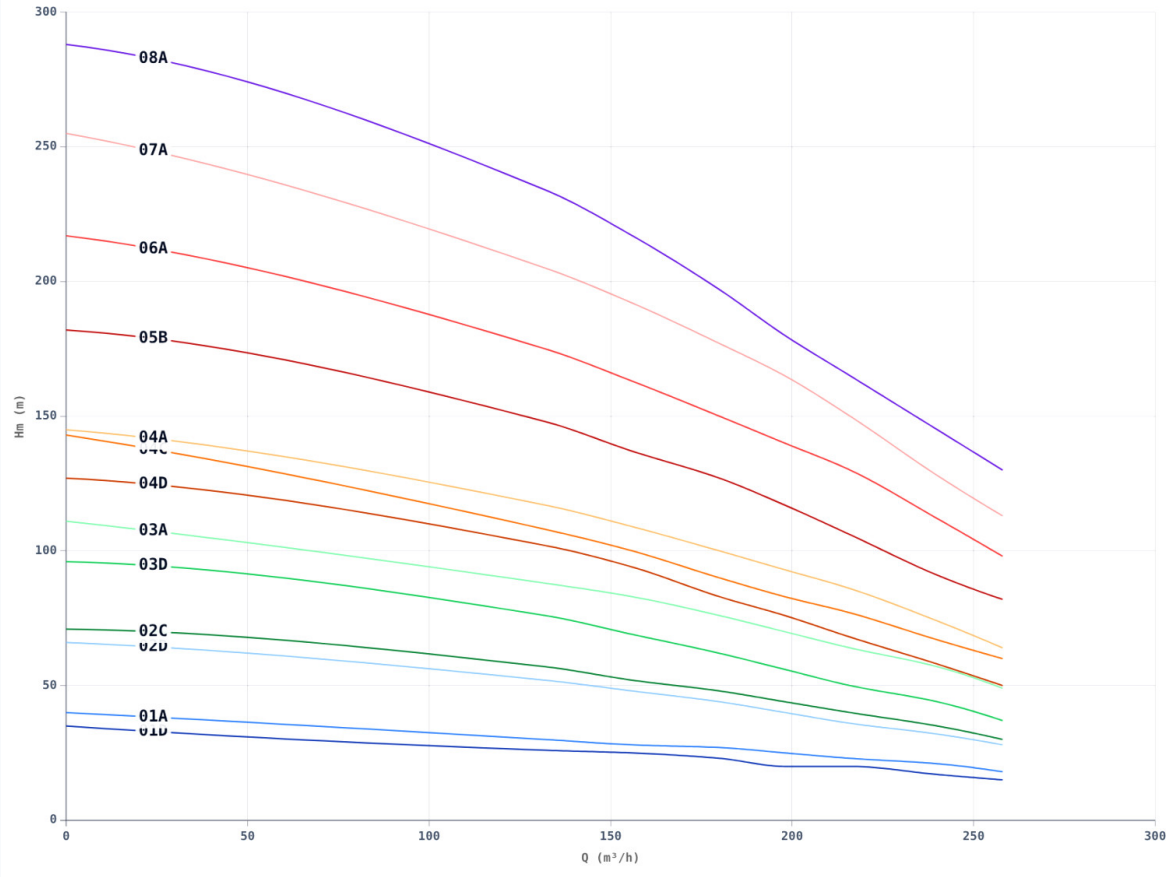
CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	Amperage	m³/h	0	90	120	138	150	162	180	204
				Hm (m)								
8150 01	9,30	12,50	-		28,0	21,0	18,0	15,0	14,0	12,0	9,0	6,0
8150 02	18,50	25,00	-		56,0	42,0	35,0	31,0	28,0	24,0	18,0	11,0
8150 03	30,00	40,00	-		83,0	64,0	53,0	46,0	41,0	36,0	28,0	17,0
8150 04	37,00	50,00	-		111,0	85,0	70,0	62,0	55,0	48,0	37,0	22,0
8150 05	45,00	60,00	-		139,0	106,0	88,0	77,0	69,0	60,0	46,0	28,0
8150 06	55,00	75,00	-		168,0	129,0	110,0	98,0	88,0	78,0	62,0	40,0
8150 07	67,00	90,00	-		195,0	150,0	128,0	114,0	102,0	90,0	72,0	47,0
8150 08	75,00	100,00	-		223,0	171,0	147,0	130,0	117,0	103,0	82,0	53,0
8150 09	83,00	110,00	-		251,0	193,0	165,0	146,0	131,0	116,0	92,0	60,0
8150 10	93,00	125,00	-		279,0	214,0	183,0	163,0	146,0	129,0	103,0	67,0
8150 11	110,00	150,00	-		307,0	236,0	202,0	179,0	160,0	142,0	113,0	73,0
8150 12	130,00	175,00	-		335,0	257,0	220,0	195,0	175,0	155,0	123,0	80,0
8150 13	130,00	175,00	-		363,0	278,0	238,0	211,0	190,0	168,0	133,0	87,0

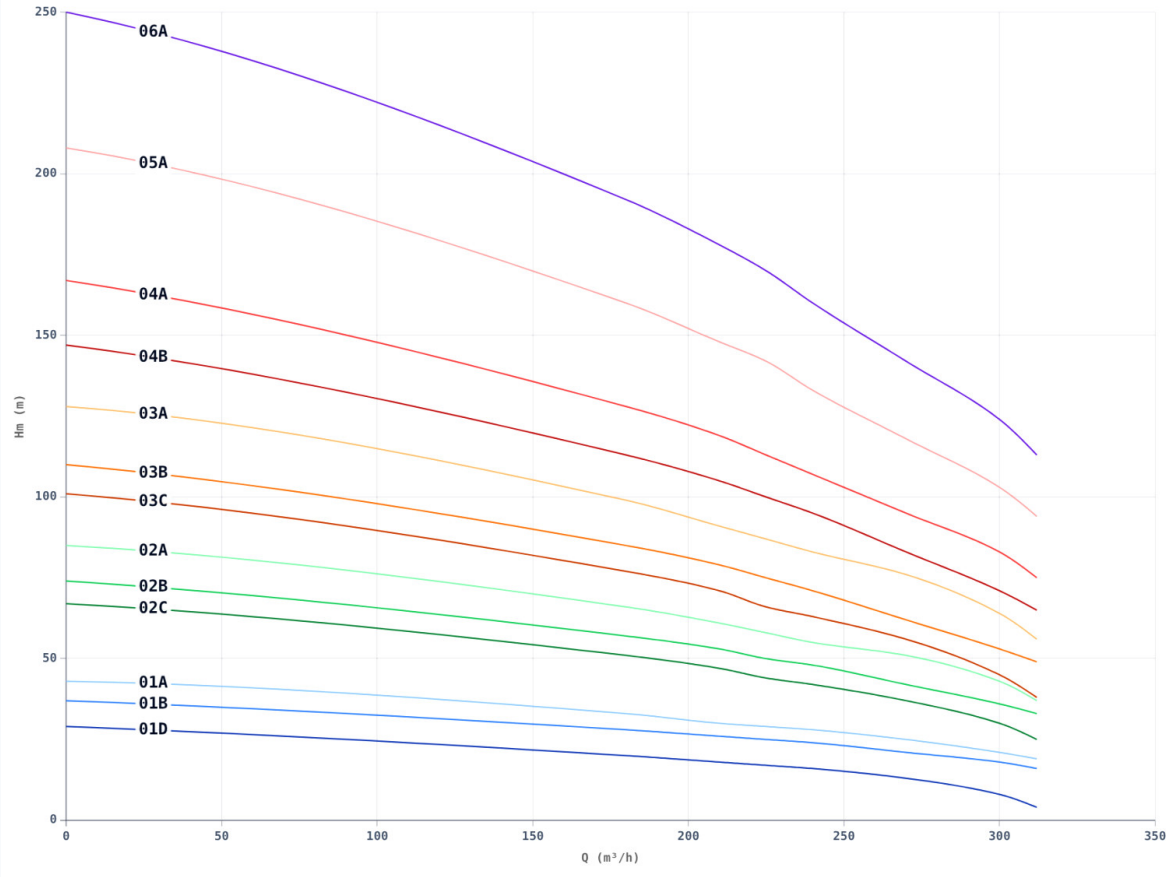
CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	Amperage	m³/h	0	132	156	180	198	216	240	258
				Hm (m)								
10200 01D	15,00	20,00	-		35,0	26,0	25,0	23,0	20,0	20,0	17,0	15,0
10200 01A	18,50	25,00	-		40,0	30,0	28,0	27,0	25,0	23,0	21,0	18,0
10200 02D	30,00	40,00	-		66,0	52,0	48,0	44,0	40,0	36,0	32,0	28,0
10200 02C	37,00	50,00	-		71,0	57,0	52,0	48,0	44,0	40,0	35,0	30,0
10200 03D	45,00	60,00	-		96,0	76,0	69,0	62,0	56,0	50,0	44,0	37,0
10200 03A	55,00	75,00	-		111,0	88,0	83,0	76,0	70,0	64,0	57,0	49,0
10200 04D	60,00	80,00	-		127,0	102,0	94,0	83,0	76,0	68,0	58,0	50,0
10200 04C	67,00	90,00	-		143,0	108,0	100,0	90,0	83,0	77,0	67,0	60,0
10200 04A	75,00	100,00	-		145,0	117,0	109,0	100,0	93,0	86,0	74,0	64,0
10200 05B	93,00	125,00	-		182,0	148,0	137,0	127,0	117,0	106,0	91,0	82,0
10200 06A	110,00	150,00	-		217,0	175,0	163,0	150,0	140,0	130,0	112,0	98,0
10200 07A	130,00	175,00	-		255,0	205,0	192,0	177,0	165,0	150,0	128,0	113,0
10200 08A	150,00	200,00	-		288,0	234,0	217,0	197,0	180,0	165,0	145,0	130,0

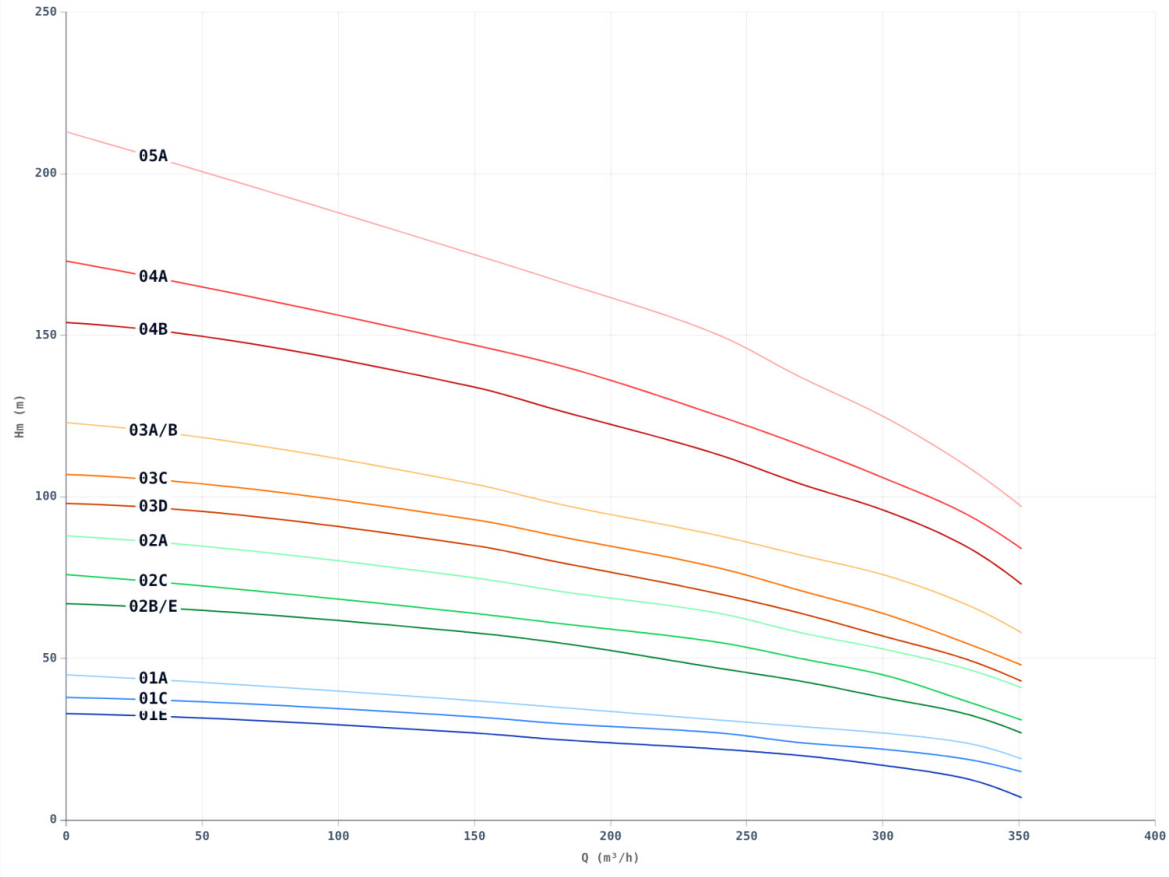
CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	Amperage	m³/h	0	180	210	225	240	270	300	312
				Hm (m)								
10270 01D	18,50	25,00	-		29,0	20,0	18,0	17,0	16,0	13,0	8,0	4,0
10270 01B	26,50	35,00	-		37,0	28,0	26,0	25,0	24,0	21,0	18,0	16,0
10270 01A	30,00	40,00	-		43,0	33,0	30,0	29,0	28,0	25,0	21,0	19,0
10270 02C	45,00	60,00	-		67,0	51,0	47,0	44,0	42,0	37,0	30,0	25,0
10270 02B	55,00	75,00	-		74,0	57,0	53,0	50,0	48,0	42,0	36,0	33,0
10270 02A	60,00	80,00	-		85,0	66,0	61,0	58,0	55,0	51,0	43,0	37,0
10270 03C	66,00	90,00	-		101,0	77,0	71,0	66,0	63,0	56,0	45,0	38,0
10270 03B	75,00	100,00	-		110,0	85,0	79,0	75,0	71,0	62,0	53,0	49,0
10270 03A	81,00	110,00	-		128,0	99,0	91,0	87,0	83,0	76,0	64,0	56,0
10270 04B	93,00	125,00	-		147,0	113,0	105,0	100,0	95,0	83,0	71,0	65,0
10270 04A	110,00	150,00	-		167,0	128,0	119,0	113,0	107,0	95,0	83,0	75,0
10270 05A	130,00	175,00	-		208,0	160,0	148,0	142,0	133,0	118,0	103,0	94,0
10270 06A	150,00	200,00	-		250,0	192,0	178,0	170,0	160,0	142,0	124,0	113,0

CURVA DE PERFORMANCE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	Amperage	m³/h	0	150	180	240	270	300	330	351
				Hm (m)								
10300 01E	26,50	35,00	-		33,0	27,0	25,0	22,0	20,0	17,0	13,0	7,0
10300 01C	30,00	40,00	-		38,0	32,0	30,0	27,0	24,0	22,0	19,0	15,0
10300 01A	45,00	60,00	-		45,0	37,0	35,0	31,0	29,0	27,0	24,0	19,0
10300 02B/E	52,00	70,00	-		67,0	58,0	55,0	47,0	43,0	38,0	33,0	27,0
10300 02C	55,00	75,00	-		76,0	64,0	61,0	55,0	50,0	45,0	37,0	31,0
10300 02A	67,00	90,00	-		88,0	75,0	71,0	64,0	58,0	53,0	47,0	41,0
10300 03D	75,00	100,00	-		98,0	85,0	80,0	70,0	64,0	57,0	50,0	43,0
10300 03C	83,00	110,00	-		107,0	93,0	88,0	78,0	71,0	64,0	55,0	48,0
10300 03A/B	93,00	125,00	-		123,0	104,0	98,0	88,0	82,0	76,0	67,0	58,0
10300 04B	110,00	150,00	-		154,0	134,0	127,0	113,0	104,0	96,0	85,0	73,0
10300 04A	130,00	175,00	-		173,0	147,0	141,0	125,0	116,0	106,0	95,0	84,0
10300 05A	150,00	200,00	-		213,0	175,0	167,0	150,0	137,0	125,0	110,0	97,0

LIST OF MATERIALS

Pos.	Description	Material (Standard)	Material (Bronze)
1	Casquilho	Poliuretano	Poliuretano
2	Válvula	Aço inox. AISI 304	Aço inox. AISI 304
3	O´ring	Borracha nitrílica	Borracha nitrílica
4	Casquilho (c/ reforço inox.)	Borracha nitrílica c/ inox	Borracha nitrílica c/ inox
5	Casquilho	Aço inox. AISI 304	Aço inox. AISI 304
6	O´ring	Borracha	Borracha
7	Turbina	Ferro Fundido GG25	Bronze B10
8	Anel desgaste (reforço inox.)	Borracha nitrílica c/ inox	Borracha nitrílica c/ inox
9	Difusor	Ferro Fundido GG25	Bronze B10
10	Parafuso DIN 933	Aço inox. AISI 316	Aço inox. AISI 316
11	Veio	Aço inox. AISI 304	Aço inox. AISI 316
12	Casquilho	Bronze B10	Bronze B10
13	Filtro de aspiração	Aço inox. AISI 304	Aço inox. AISI 304
14	Chaveta	Aço inox. AISI 316	Aço inox. AISI 316
15	Parafuso DIN 912	Aço inox. AISI 316	Aço inox. AISI 316
16	Cardan	Aço inox. AISI 304	Aço inox. AISI 316
17	O´ring	Borracha	Borracha
18	Câmara aspirante	Ferro Fundido GG25	Bronze B10

USAGE CONDITIONS

- Never run the pump dry. Not even for a short trial run.
- A cooling jacket must be installed if the well diameter is considerably larger than the pump.
- Check rotation direction on three-phase motors.
- Mandatory installation with metallic piping.
- Install a non-return valve on the delivery pipe.
- Mandatory protection: Overload, Short-circuit and Dry running.