JOVAL
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TECHNICAL DATASHEET

BJ4 Submersible Pumps

Compact BJ4 series submersible pumps.

BJ4 multistage submersible electric pumps for boreholes and wells. Designed for pumping clean water in domestic, agricultural, and industrial applications. They feature floating impellers that ensure high resistance to sand and extended service life. Equipped with an integrated non-return valve in the discharge head.

APPLICATIONS

- Water abstraction from boreholes, reservoirs and water courses.
- Domestic water supply.
- Agricultural irrigation and gardens.
- Hydropneumatic systems.

TECHNICAL DATA

TECHNICAL SPECIFICATIONS

Type	Multistage centrifugal pump
Material	Noryl or Polycarbonate impellers
Installation	Vertical / Horizontal
Diameter	4" (~98mm)
Sand Fighter®	Up to 150g/m³

MOTOR CHARACTERISTICS

Voltage	230 V (1~) / 400 V (3~)
Max Temperature	35° C
Starts/Hour	Maximum 20 starts per hour
Discharge	1" 1/4 - 2"

DIMENSÕES

Model	kW	BJ (kg)	FM (kg)	FT (kg)
41 08	0,3	3,2	10,8	—
41 13	0,4	4,2	12,4	11,1
41 18	0,6	5,4	14,8	13,3
41 23	0,8	6,3	16,9	15,2
41 35	1,1	9,0	21,0	19,4
41 45	1,5	11,9	25,2	23,5
41 65	2,2	16,2	33,9	31,5

DIMENSÕES

Model	kW	BJ (kg)	FM (kg)	FT (kg)
41.5 07	0,3	3,2	10,8	—
41.5 09	0,4	3,6	11,8	11,0
41.5 15	0,6	4,3	13,7	12,2
41.5 19	0,8	5,6	16,2	14,5
41.5 29	1,1	7,6	19,6	18,0
41.5 38	1,5	9,7	22,8	21,1
41.5 58	2,2	14,5	32,2	29,9
41.5 74	3,0	17,7	—	35,1

DIMENSÕES

Model	kW	BJ (kg)	FM (kg)	FT (kg)
42 07	0,4	3,9	11,4	10,6
42 11	0,6	3,9	13,3	11,8
42 14	0,8	4,2	14,8	13,3
42 21	1,1	6,2	18,2	16,6
42 27	1,5	7,1	20,2	18,5
42 39	2,2	10,0	27,5	22,8
42 50	3,0	13,0	—	30,4
42 70	4,0	17,9	—	38,1

DIMENSÕES

Model	kW	BJ (kg)	FM (kg)	FT (kg)
43 06	0,4	3,2	11,4	10,6
43 09	0,6	3,8	13,2	11,7
43 12	0,8	4,5	15,1	13,4
43 18	1,1	6,0	18,0	16,4
43 24	1,5	8,5	21,6	19,9
43 35	2,2	10,0	27,5	22,8
43 47	3,0	12,8	—	30,2
43 60	4,0	16,8	—	37,2
43 78	5,5	21,0	—	48,0

DIMENSÕES

Model	kW	BJ (kg)	FM (kg)	FT (kg)
44 05	0,4	3,0	11,2	10,4
44 07	0,6	3,4	12,8	11,3
44 09	0,8	3,8	14,4	12,7
44 14	1,1	4,9	16,9	15,3
44 18	1,5	6,0	19,1	17,4
44 26	2,2	7,7	25,2	20,5
44 35	3,0	10,0	—	27,2

Model	kW	BJ (kg)	FM (kg)	FT (kg)
44 47	4,0	13,0	—	33,4
44 60	5,5	16,0	—	43,0
44 78	7,5	20,2	—	51,2

DIMENSÕES

Model	kW	BJ (kg)	FM (kg)	FT (kg)
46 04	0,6	2,9	12,3	10,8
46 06	0,8	3,5	14,1	12,4
46 09	1,1	4,5	16,5	14,9
46 12	1,5	5,5	18,6	16,9
46 17	2,2	6,8	24,3	19,6
46 23	3,0	8,7	—	25,9
46 31	4,0	11,2	—	31,6
46 42	5,5	14,3	—	41,3
46 59	7,5	20,1	—	51,1

DIMENSÕES

Model	kW	BJ (kg)	FM (kg)	FT (kg)
48 04	0,8	3,0	13,6	11,9
48 07	1,1	3,6	15,6	14,0
48 09	1,5	4,3	17,4	15,7
48 13	2,2	5,7	23,2	18,5
48 17	3,0	6,8	—	22,0
48 23	4,0	8,5	—	28,7
48 31	5,5	11,0	—	38,0
48 42	7,5	14,2	—	45,2

DIMENSÕES

Model	kW	BJ (kg)	FM (kg)	FT (kg)
410 05	1,1	4,1	16,1	14,5
410 07	1,5	5,0	18,1	16,4
410 10	2,2	6,5	24,0	19,3
410 15	3,0	9,0	—	24,2
410 20	4,0	11,7	—	32,1
410 26	5,5	14,0	—	41,0
410 35	7,5	18,0	—	49,0

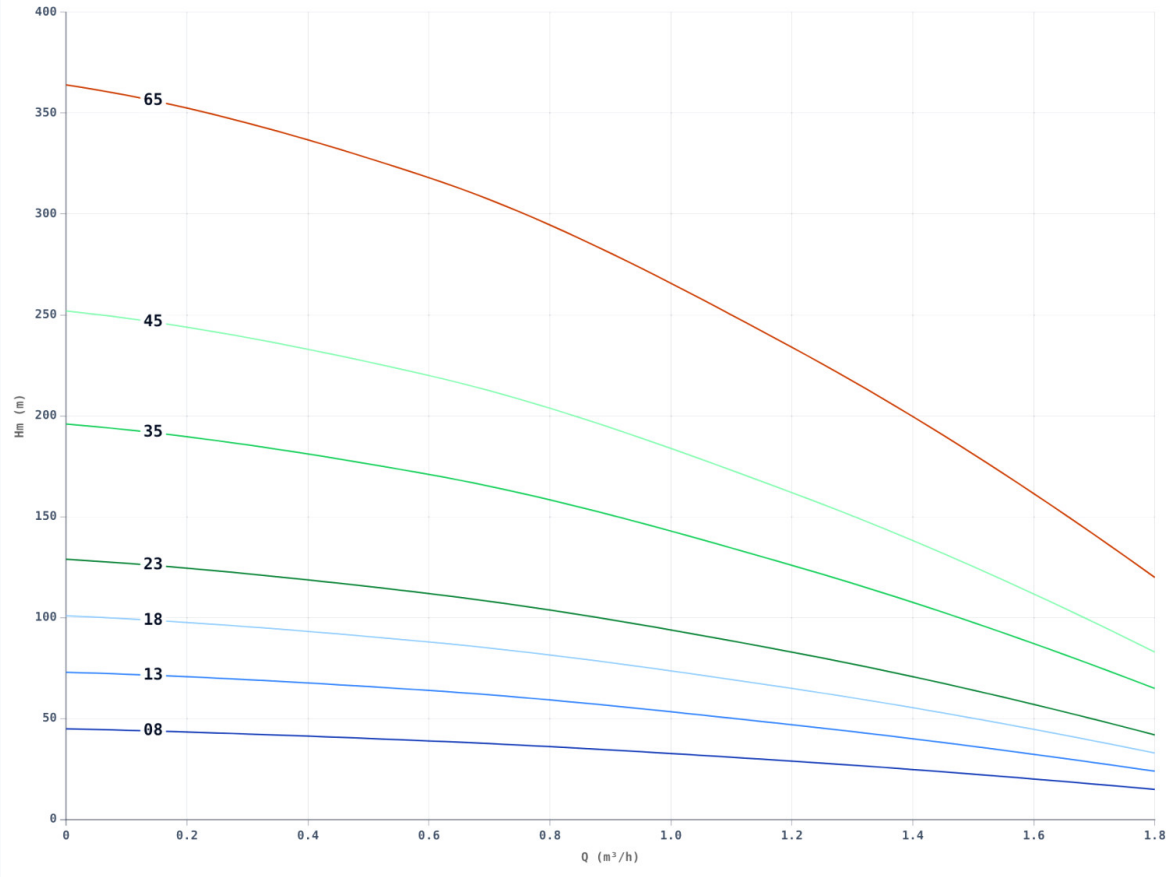
DIMENSÕES

Model	kW	BJ (kg)	FM (kg)	FT (kg)
412 04	1,1	3,7	15,7	14,1
412 06	1,5	4,5	17,6	15,9
412 09	2,2	6,1	23,6	18,9
412 12	3,0	7,4	—	22,6
412 16	4,0	9,4	—	29,8
412 22	5,5	12,4	—	39,4
412 29	7,5	15,5	—	46,5

DIMENSÕES

Model	kW	BJ (kg)	FM (kg)	FT (kg)
415 05	1,5	4,0	17,1	15,4
415 08	2,2	5,3	22,8	18,1
415 10	3,0	6,5	—	21,7
415 14	4,0	8,5	—	28,7
415 18	5,5	10,8	—	37,8
415 25	7,5	14,2	—	45,2

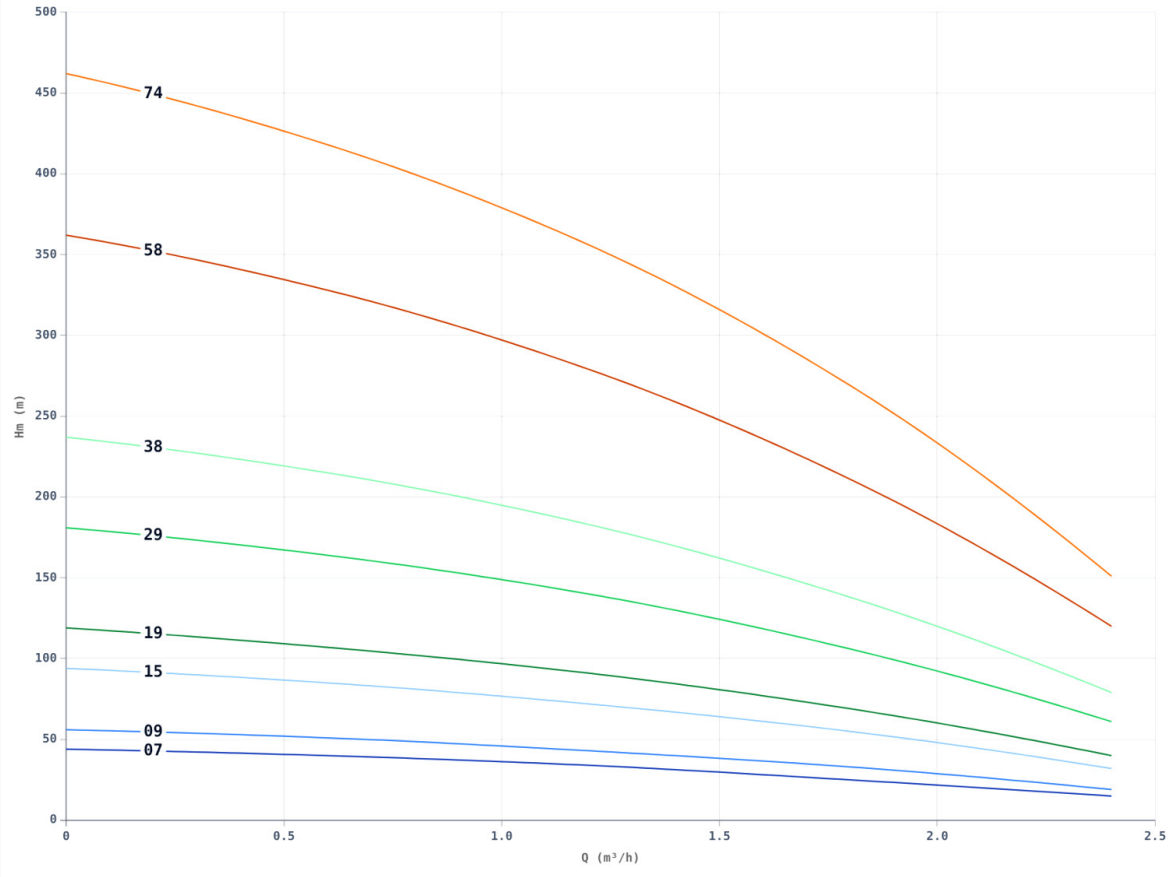
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	Amp (1~/3~)	m³/h	0	0.6	1.2	1.8
				Hm (m)				
BJ4 41 08	0,25	0,33	—		45,0	39,0	29,0	15,0
BJ4 41 13	0,37	0,50	—		73,0	64,0	47,0	24,0
BJ4 41 18	0,55	0,75	—		101,0	88,0	65,0	33,0
BJ4 41 23	0,75	1,00	—		129,0	112,0	83,0	42,0
BJ4 41 35	1,10	1,50	—		196,0	171,0	126,0	65,0
BJ4 41 45	1,50	2,00	—		252,0	220,0	162,0	83,0
BJ4 41 65	2,20	3,00	—		364,0	318,0	234,0	120,0

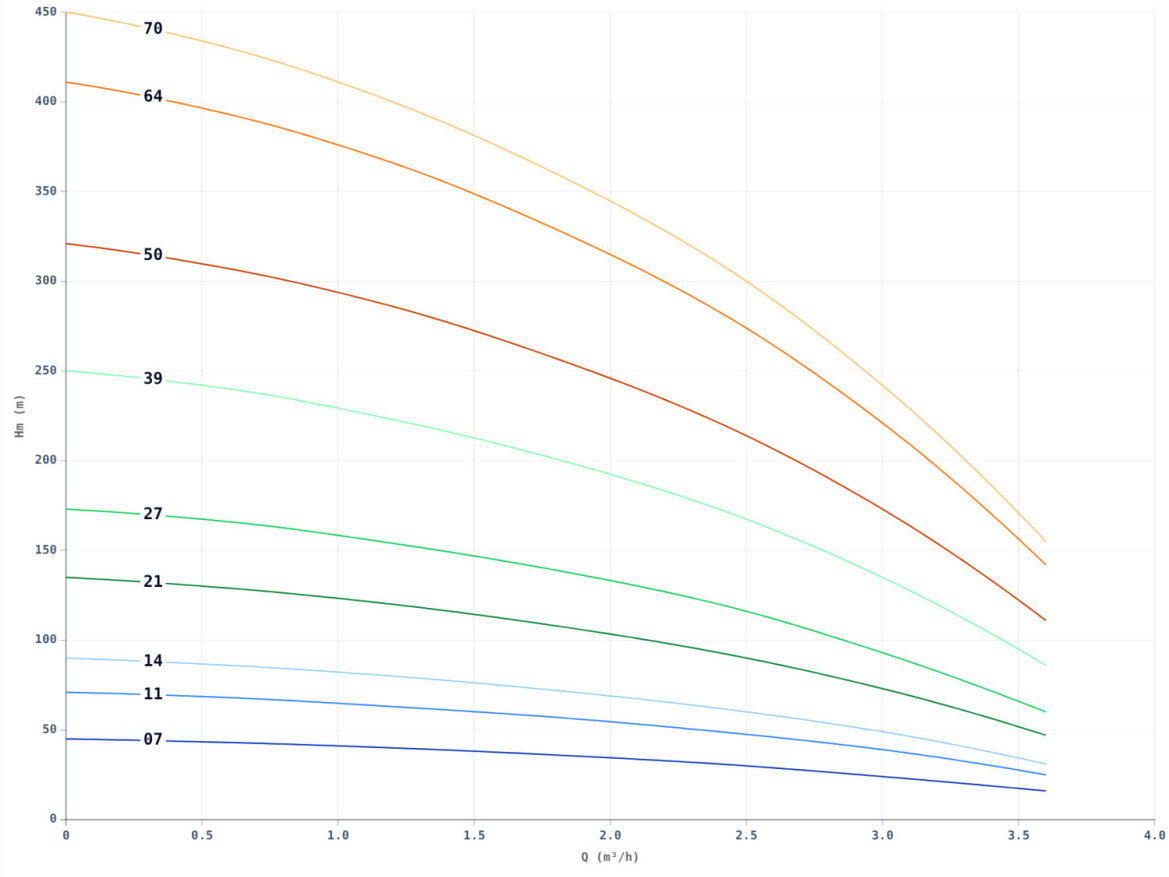
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	Amp (1~/3~)	m³/h	0	0.6	1.2	1.8	2.4
				Hm (m)					
BJ4 41.5 07	0,25	0,33	—		44,0	40,0	34,0	25,0	15,0
BJ4 41.5 09	0,37	0,50	—		56,0	51,0	43,0	33,0	19,0
BJ4 41.5 15	0,55	0,75	—		94,0	85,0	72,0	55,0	32,0
BJ4 41.5 19	0,75	1,00	—		119,0	107,0	91,0	69,0	40,0
BJ4 41.5 29	1,10	1,50	—		181,0	164,0	140,0	106,0	61,0
BJ4 41.5 38	1,50	2,00	—		237,0	215,0	183,0	138,0	79,0
BJ4 41.5 58	2,20	3,00	—		362,0	328,0	279,0	211,0	120,0
BJ4 41.5 74	3,00	4,00	—		462,0	418,0	356,0	269,0	151,0

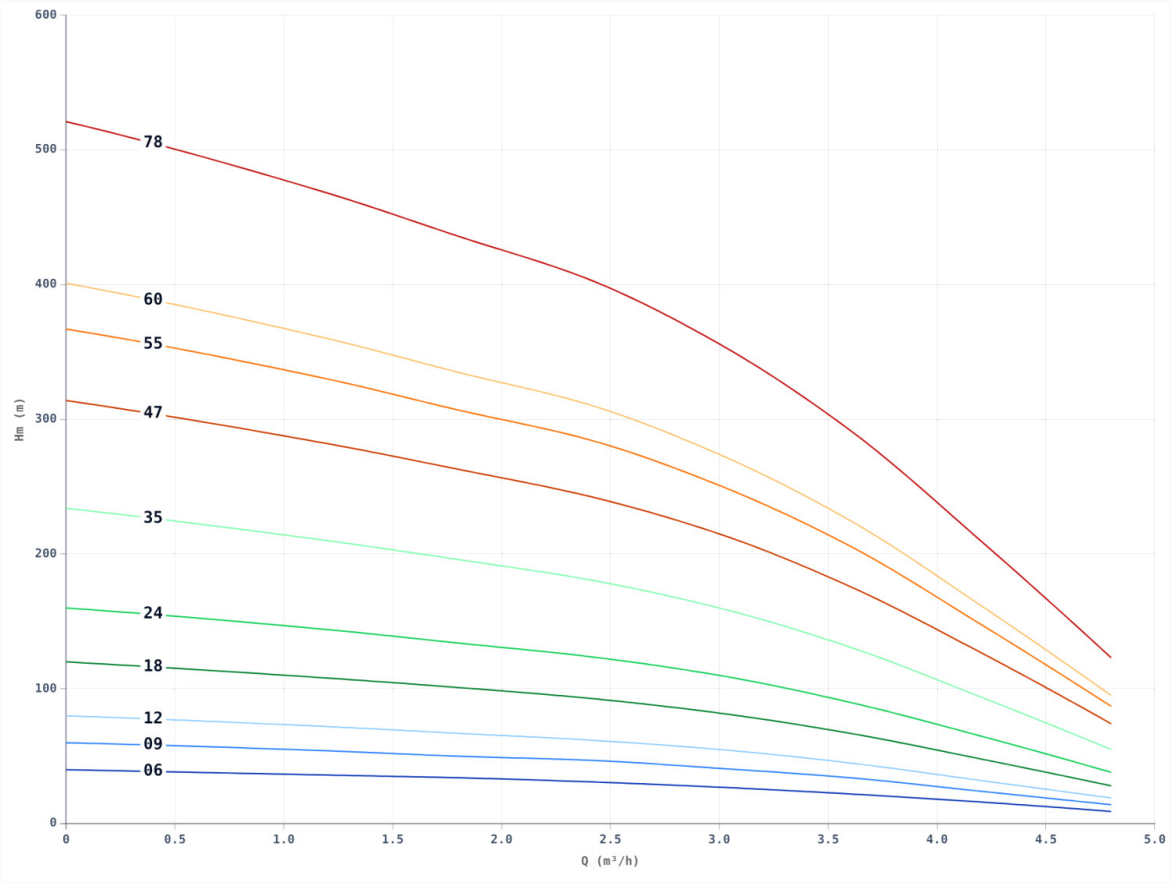
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	Amp (1~/3~)	m³/h	0	0.6	1.2	1.8	2.4	3	3.6
				Hm (m)							
BJ4 42 07	0,37	0,50	—		45,0	43,0	40,0	36,0	31,0	24,0	16,0
BJ4 42 11	0,55	0,75	—		71,0	68,0	63,0	57,0	49,0	39,0	25,0
BJ4 42 14	0,75	1,00	—		90,0	86,0	80,0	72,0	62,0	49,0	31,0
BJ4 42 21	1,10	1,50	—		135,0	129,0	120,0	108,0	93,0	73,0	47,0
BJ4 42 27	1,50	2,00	—		173,0	166,0	154,0	139,0	120,0	93,0	60,0
BJ4 42 39	2,20	3,00	—		250,0	240,0	223,0	201,0	173,0	135,0	86,0
BJ4 42 50	3,00	4,00	—		321,0	307,0	286,0	257,0	221,0	173,0	111,0
BJ4 42 64	3,70	5,00	—		411,0	393,0	366,0	329,0	283,0	221,0	142,0
BJ4 42 70	4,00	5,50	—		450,0	430,0	400,0	360,0	310,0	242,0	155,0

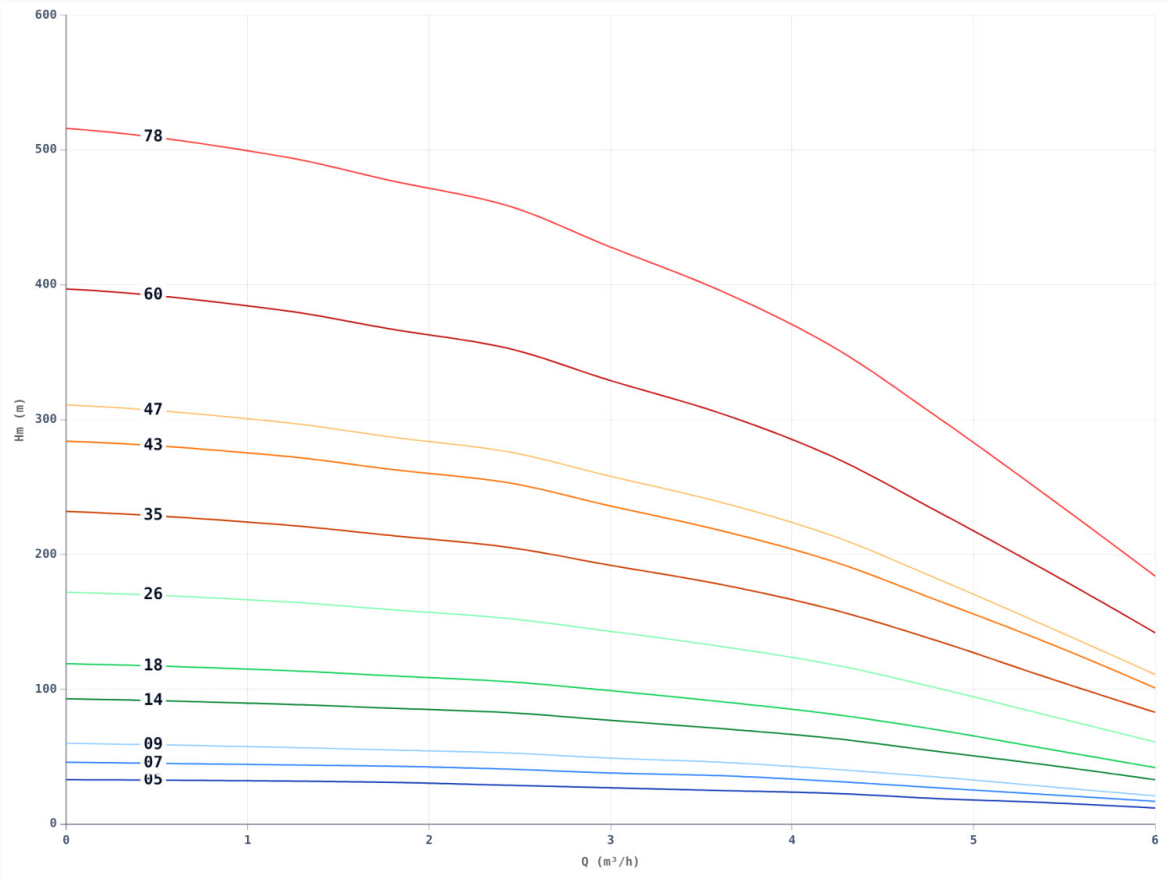
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	Amp (1~/3~)	m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8
				Hm (m)									
BJ4 43 06	0,37	0,50	—		40,0		36,0	34,0	31,0	27,0	22,0	16,0	9,0
BJ4 43 09	0,55	0,75	—		60,0		54,0	50,0	47,0	41,0	34,0	24,0	14,0
BJ4 43 12	0,75	1,00	—		80,0		72,0	67,0	62,0	55,0	45,0	32,0	19,0
BJ4 43 18	1,10	1,50	—		120,0		108,0	101,0	93,0	82,0	67,0	48,0	28,0
BJ4 43 24	1,50	2,00	—		160,0		144,0	134,0	124,0	110,0	90,0	65,0	38,0
BJ4 43 35	2,20	3,00	—		234,0		210,0	196,0	181,0	160,0	131,0	94,0	55,0
BJ4 43 47	3,00	4,00	—		314,0		282,0	263,0	243,0	215,0	176,0	127,0	74,0
BJ4 43 55	3,70	5,00	—		367,0		330,0	307,0	285,0	251,0	206,0	148,0	87,0
BJ4 43 60	4,00	5,50	—		401,0		360,0	335,0	311,0	274,0	225,0	162,0	95,0
BJ4 43 78	5,50	7,50	—		521,0		468,0	436,0	404,0	356,0	292,0	210,0	123,0

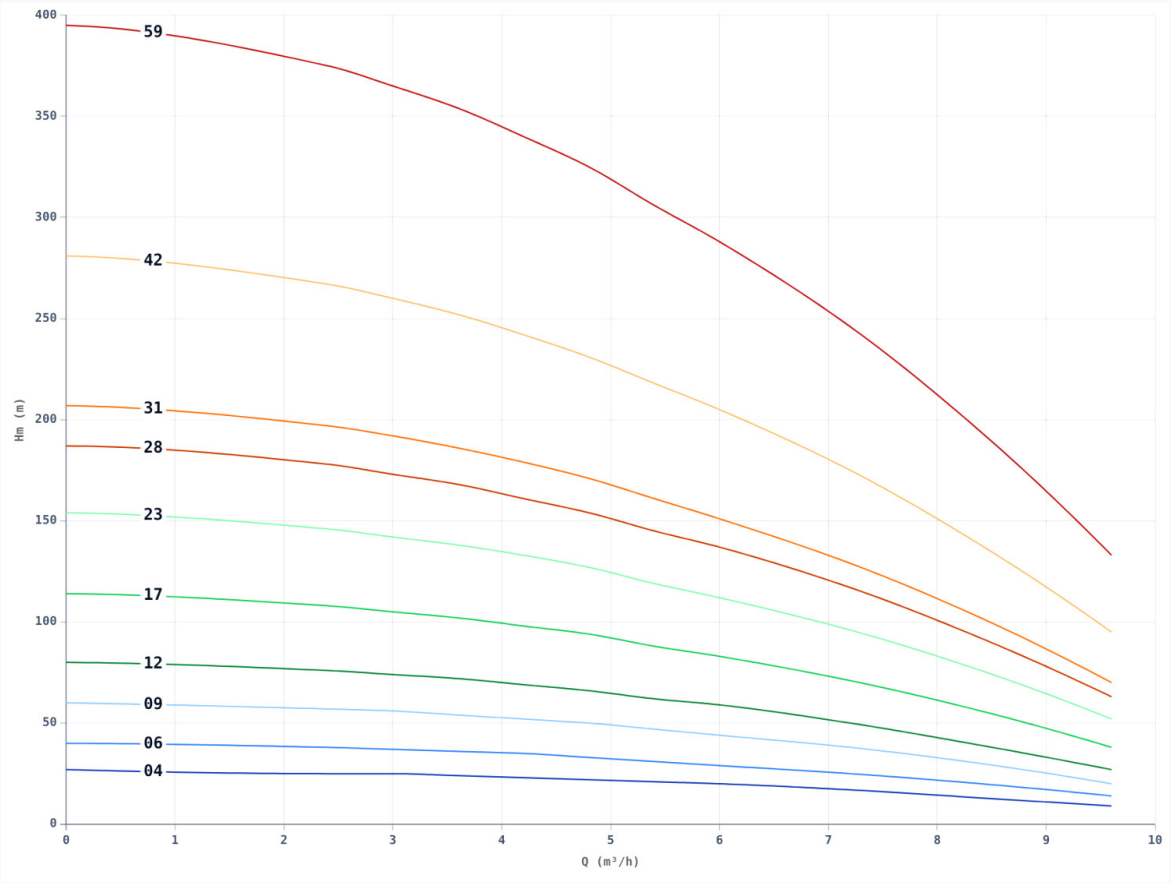
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	Amp (1~/3~)	m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
				Hm (m)											
BJ4 44 05	0,37	0,50	—		33,0		32,0	31,0	29,0	27,0	25,0	23,0	19,0	16,0	12,0
BJ4 44 07	0,55	0,75	—		46,0		44,0	43,0	41,0	38,0	36,0	32,0	27,0	22,0	17,0
BJ4 44 09	0,75	1,00	—		60,0		57,0	55,0	53,0	49,0	46,0	41,0	35,0	28,0	21,0
BJ4 44 14	1,10	1,50	—		93,0		89,0	86,0	83,0	77,0	71,0	64,0	54,0	44,0	33,0
BJ4 44 18	1,50	2,00	—		119,0		114,0	110,0	106,0	99,0	91,0	82,0	70,0	56,0	42,0
BJ4 44 26	2,20	3,00	—		172,0		165,0	159,0	153,0	143,0	132,0	119,0	101,0	81,0	61,0
BJ4 44 35	3,00	4,00	—		232,0		222,0	214,0	206,0	192,0	178,0	160,0	136,0	109,0	83,0
BJ4 44 43	3,70	5,00	—		284,0		273,0	263,0	254,0	236,0	218,0	196,0	166,0	135,0	101,0
BJ4 44 47	4,00	5,50	—		311,0		298,0	287,0	277,0	258,0	239,0	215,0	182,0	147,0	111,0
BJ4 44 60	5,50	7,50	—		397,0		381,0	367,0	354,0	329,0	305,0	274,0	232,0	188,0	142,0
BJ4 44 78	7,50	10,00	—		516,0		495,0	477,0	460,0	428,0	396,0	356,0	302,0	244,0	184,0

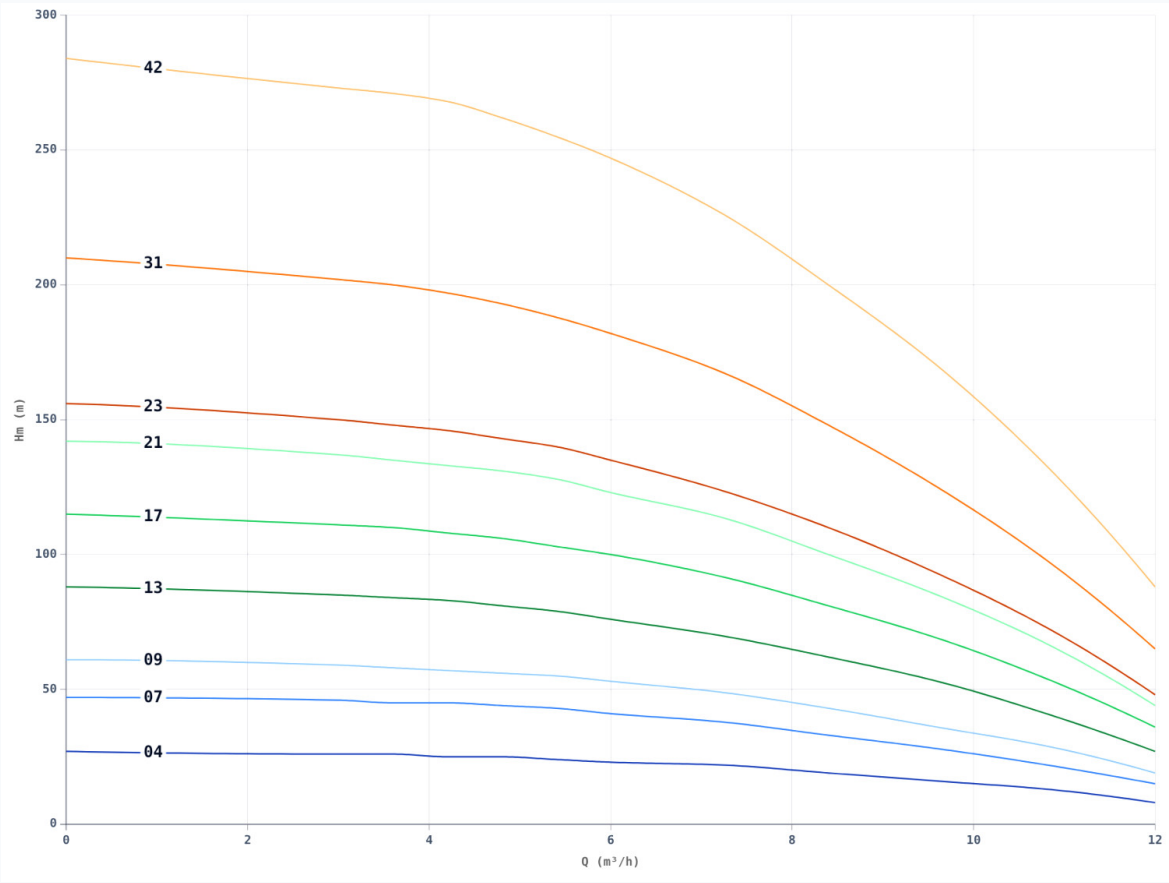
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	Amp (1~/3~)	m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6	7.2	8.4	9.6
				Hm (m)														
BJ4 46 04	0,55	0,75	—		27,0				25,0	25,0	24,0	23,0	22,0	21,0	20,0	17,0	13,0	9,0
BJ4 46 06	0,75	1,00	—		40,0				38,0	37,0	36,0	35,0	33,0	31,0	29,0	25,0	20,0	14,0
BJ4 46 09	1,10	1,50	—		60,0				57,0	56,0	54,0	52,0	50,0	47,0	44,0	38,0	30,0	20,0
BJ4 46 12	1,50	2,00	—		80,0				76,0	74,0	72,0	69,0	66,0	62,0	59,0	50,0	39,0	27,0
BJ4 46 17	2,20	3,00	—		114,0				108,0	105,0	102,0	98,0	94,0	88,0	83,0	71,0	56,0	38,0
BJ4 46 23	3,00	4,00	—		154,0				146,0	142,0	138,0	133,0	127,0	119,0	112,0	96,0	76,0	52,0
BJ4 46 28	3,70	5,00	—		187,0				178,0	173,0	168,0	161,0	154,0	145,0	137,0	117,0	92,0	63,0
BJ4 46 31	4,00	5,50	—		207,0				197,0	192,0	186,0	179,0	171,0	161,0	151,0	129,0	102,0	70,0
BJ4 46 42	5,50	7,50	—		281,0				267,0	260,0	252,0	242,0	231,0	218,0	205,0	175,0	138,0	95,0
BJ4 46 59	7,50	10,00	—		395,0				375,0	365,0	354,0	340,0	325,0	306,0	288,0	246,0	194,0	133,0

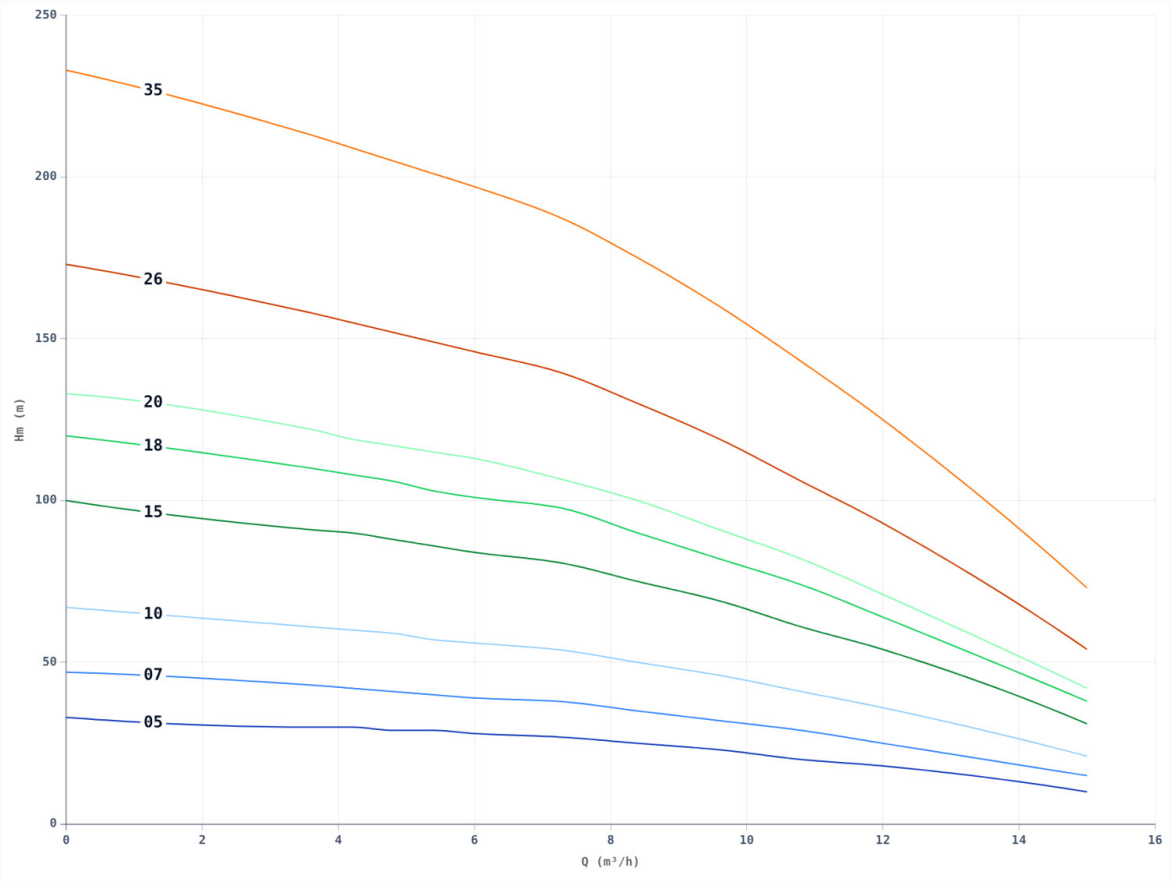
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	Amp (1~/3~)	m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6	7.2	8.4	9.6	10.8	12
				Hm (m)																
BJ4 48 04	0,75	1,00	—		27,0					26,0	26,0	25,0	25,0	24,0	23,0	22,0	19,0	16,0	13,0	8,0
BJ4 48 07	1,10	1,50	—		47,0					46,0	45,0	45,0	44,0	43,0	41,0	38,0	33,0	28,0	22,0	15,0
BJ4 48 09	1,50	2,00	—		61,0					59,0	58,0	57,0	56,0	55,0	53,0	49,0	43,0	36,0	29,0	19,0
BJ4 48 13	2,20	3,00	—		88,0					85,0	84,0	83,0	81,0	79,0	76,0	70,0	62,0	53,0	41,0	27,0
BJ4 48 17	3,00	4,00	—		115,0					111,0	110,0	108,0	106,0	103,0	100,0	92,0	81,0	69,0	54,0	36,0
BJ4 48 21	3,70	5,00	—		142,0					137,0	135,0	133,0	131,0	128,0	123,0	114,0	100,0	85,0	67,0	44,0
BJ4 48 23	4,00	5,50	—		156,0					150,0	148,0	146,0	143,0	140,0	135,0	124,0	110,0	93,0	73,0	48,0
BJ4 48 31	5,50	7,50	—		210,0					202,0	200,0	197,0	193,0	188,0	182,0	168,0	148,0	125,0	98,0	65,0
BJ4 48 42	7,50	10,00	—		284,0					273,0	271,0	268,0	262,0	255,0	247,0	227,0	200,0	170,0	133,0	88,0

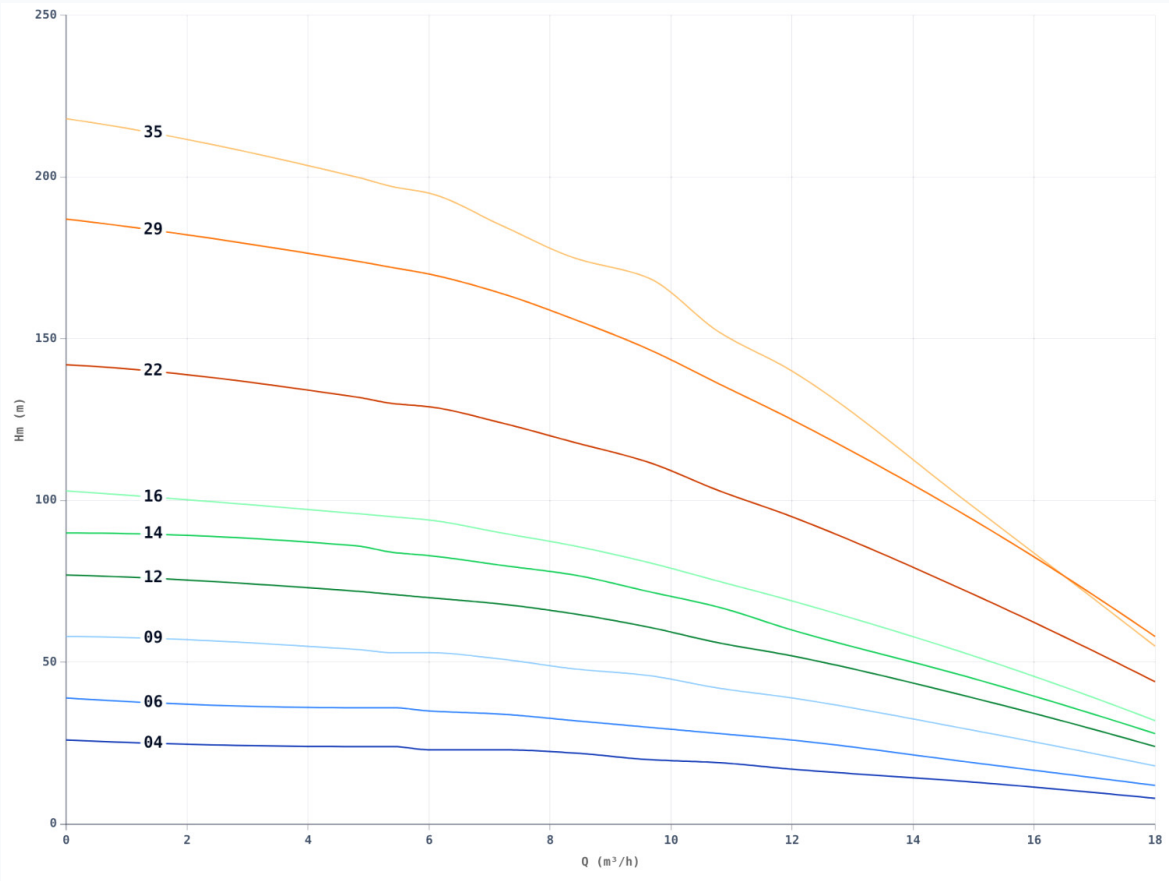
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	Amp (1~/3~)	m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6	7.2	8.4	9.6	10.8	12	15
				Hm (m)																	
BJ4 410 05	1,10	1,50	—		33,0						30,0	30,0	29,0	29,0	28,0	27,0	25,0	23,0	20,0	18,0	10,0
BJ4 410 07	1,50	2,00	—		47,0						43,0	42,0	41,0	40,0	39,0	38,0	35,0	32,0	29,0	25,0	15,0
BJ4 410 10	2,20	3,00	—		67,0						61,0	60,0	59,0	57,0	56,0	54,0	50,0	46,0	41,0	36,0	21,0
BJ4 410 15	3,00	4,00	—		100,0						91,0	90,0	88,0	86,0	84,0	81,0	75,0	69,0	61,0	54,0	31,0
BJ4 410 18	3,70	5,00	—		120,0						110,0	108,0	106,0	103,0	101,0	98,0	90,0	82,0	74,0	64,0	38,0
BJ4 410 20	4,00	5,50	—		133,0						122,0	119,0	117,0	115,0	113,0	107,0	100,0	91,0	82,0	71,0	42,0
BJ4 410 26	5,50	7,50	—		173,0						158,0	155,0	152,0	149,0	146,0	140,0	130,0	119,0	106,0	93,0	54,0
BJ4 410 35	7,50	10,00	—		233,0						213,0	209,0	205,0	201,0	197,0	188,0	175,0	160,0	143,0	125,0	73,0

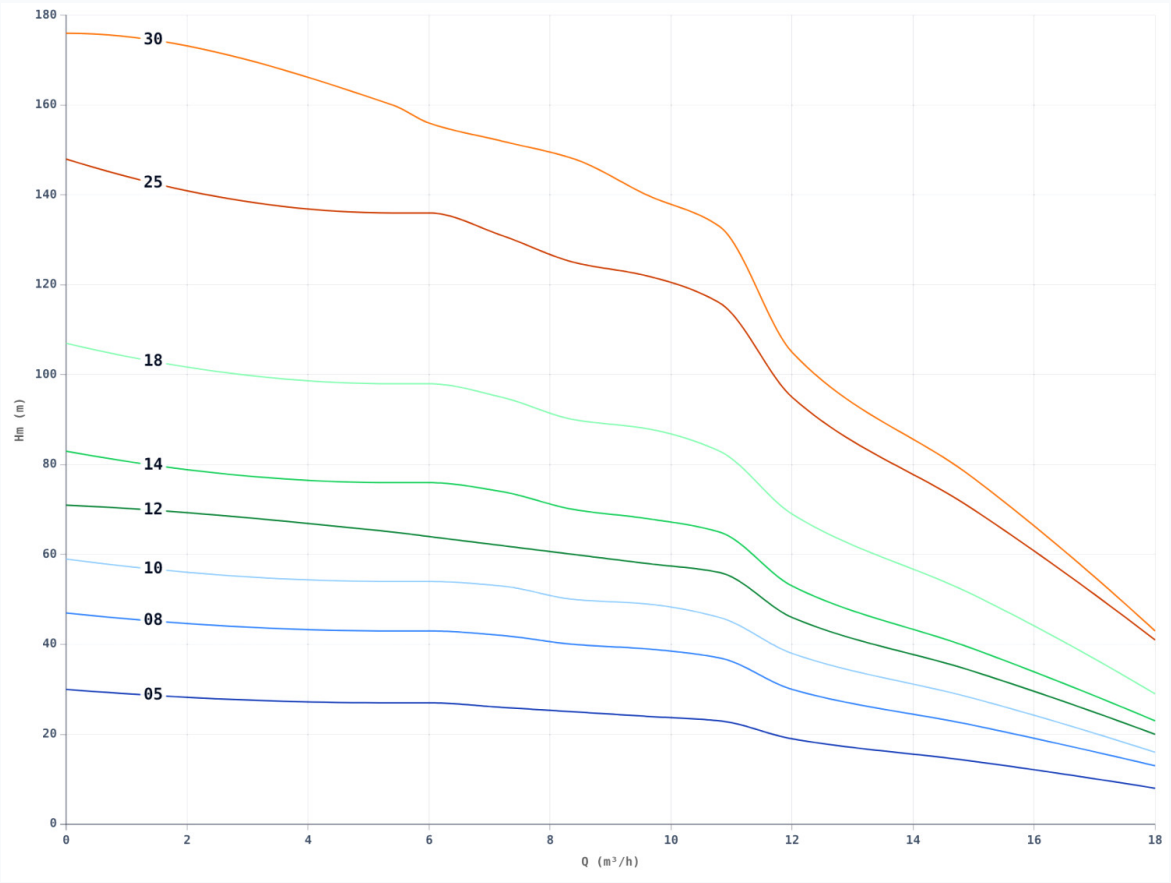
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	Amp (1~/3~)	m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6	7.2	8.4	9.6	10.8	12	15	18
				Hm (m)																		
BJ4 412 04	1,10	1,50	—		26,0								24,0	24,0	23,0	23,0	22,0	20,0	19,0	17,0	13,0	8,0
BJ4 412 06	1,50	2,00	—		39,0								36,0	36,0	35,0	34,0	32,0	30,0	28,0	26,0	19,0	12,0
BJ4 412 09	2,20	3,00	—		58,0								54,0	53,0	53,0	51,0	48,0	46,0	42,0	39,0	29,0	18,0
BJ4 412 12	3,00	4,00	—		77,0								72,0	71,0	70,0	68,0	65,0	61,0	56,0	52,0	39,0	24,0
BJ4 412 14	3,70	5,00	—		90,0								86,0	84,0	83,0	80,0	77,0	72,0	67,0	60,0	45,0	28,0
BJ4 412 16	4,00	5,50	—		103,0								96,0	95,0	94,0	90,0	86,0	81,0	75,0	69,0	52,0	32,0
BJ4 412 22	5,50	7,50	—		142,0								132,0	130,0	129,0	124,0	118,0	112,0	103,0	95,0	71,0	44,0
BJ4 412 29	7,50	10,00	—		187,0								174,0	172,0	170,0	164,0	156,0	147,0	136,0	125,0	94,0	58,0
BJ4 412 35	9,30	12,50	—		218,0								200,0	197,0	195,0	185,0	175,0	169,0	152,0	140,0	98,0	55,0

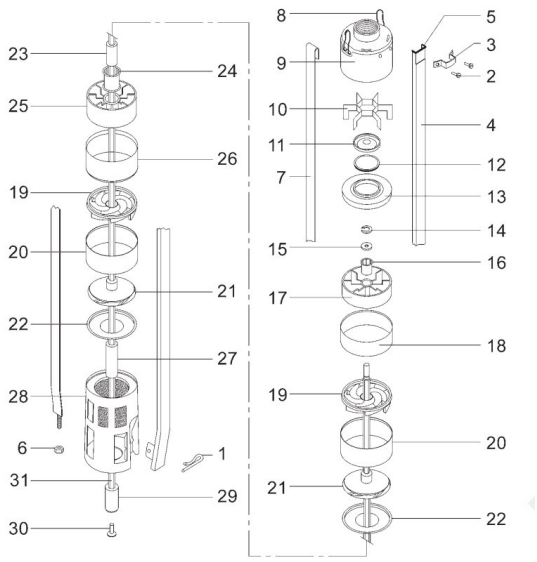
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	Amp (1~/3~)	m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6	7.2	8.4	9.6	10.8	12	15	18
				Hm (m)																		
BJ4 415 05	1,50	2,00	—		30,0									27,0	27,0	26,0	25,0	24,0	23,0	19,0	14,0	8,0
BJ4 415 08	2,20	3,00	—		47,0									43,0	43,0	42,0	40,0	39,0	37,0	30,0	22,0	13,0
BJ4 415 10	3,00	4,00	—		59,0									54,0	54,0	53,0	50,0	49,0	46,0	38,0	28,0	16,0
BJ4 415 12	3,70	5,00	—		71,0									65,0	64,0	62,0	60,0	58,0	56,0	46,0	34,0	20,0
BJ4 415 14	4,00	5,50	—		83,0									76,0	76,0	74,0	70,0	68,0	65,0	53,0	39,0	23,0
BJ4 415 18	5,50	7,50	—		107,0									98,0	98,0	95,0	90,0	88,0	83,0	69,0	51,0	29,0
BJ4 415 25	7,50	10,00	—		148,0									136,0	136,0	131,0	125,0	122,0	116,0	95,0	70,0	41,0
BJ4 415 30	9,30	12,50	—		176,0									160,0	156,0	152,0	148,0	140,0	133,0	105,0	77,0	43,0

LIST OF MATERIALS



Pos.	Description
1	Pin
2	Screw
3	Clamp
4	Cable guard
5	Protection rubber
6	Nut
7	Tie rod
8	Support hook
9	Upper support / Discharge head
10	Valve guide
11	Valve
12	O'ring
13	Valve seat
14	Circlip/Snap ring
15	Washer
16	Upper guide bushing
17	Upper guide
18	Upper guide ring
19	Diffuser
20	Diffuser ring
21	Impellers
22	Diffuser cover
23	Bushing
24	Central guide bushing
25	Central guide
26	Central guide ring
27	Lower bushing
28	Suction chamber
29	Coupling
30	Screw
31	Pump shaft