



# Eletrobombas Multicelulares MV

Eletrobombas multicelulares MV de alta performance.



Ficha Técnica Completa com Dados Técnicos e Curva de Performance

TENSÃO **220-230V (1~) / 380-415V (3~)**



Digitalize para ver detalhes do produto:

**JOVAL** - Marinho Oliveira S.A. | Zona Industrial do Socorro, Lote 10, Fafe

[www.joval.pt](http://www.joval.pt)



# Eletróbombas Multicelulares MV

Eletróbombas multicelulares MV de alta performance.



As Eletróbombas Multicelulares MV oferecem alta performance em bombeamento de líquidos limpos, com caudais até 15 m<sup>3</sup>/h e alturas manométricas de até 160 m. Ideais para sistemas de pressurização, abastecimento de água e irrigação, são fabricadas com materiais duráveis e resistentes, como aço inoxidável e Noryl.

<p>A série MV destaca-se pela sua robustez e versatilidade, sendo a escolha ideal para aplicações que exigem fiabilidade hidráulica e eficiência energética.</p>

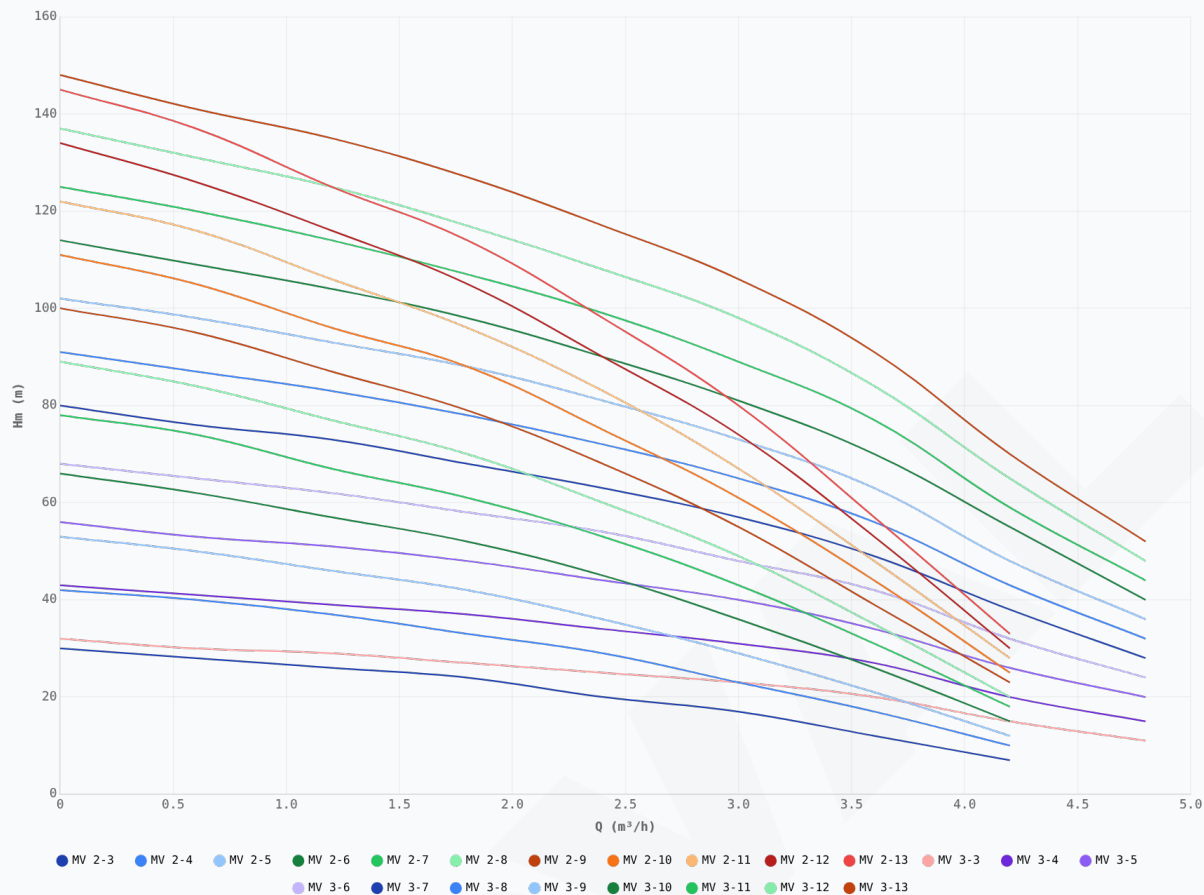
## APLICAÇÕES

- Processos industriais e transferência de líquidos.
- Abastecimento doméstico de água.
- Sistemas de pressurização hidráulica
- Tratamento de águas
- Irrigação agrícola
- Sistemas de lavagem industrial

### ESPECIFICAÇÕES TÉCNICAS

Tipo	Bomba centrífuga multicelular
Standard	In-line
Detalhes do Motor	Motor elétrico hermeticamente fechado e impregnado com resina protetora
Tensão	220-230V (1~) / 380-415V (3~)
Caudal Máximo	15 m <sup>3</sup> /h
Altura Máxima	160 m
Proteção	IP 55
Isolamento	Classe F
Operação	S1 (Serviço Contínuo)

# CURVA DE PERFORMANCE (Q - HM)

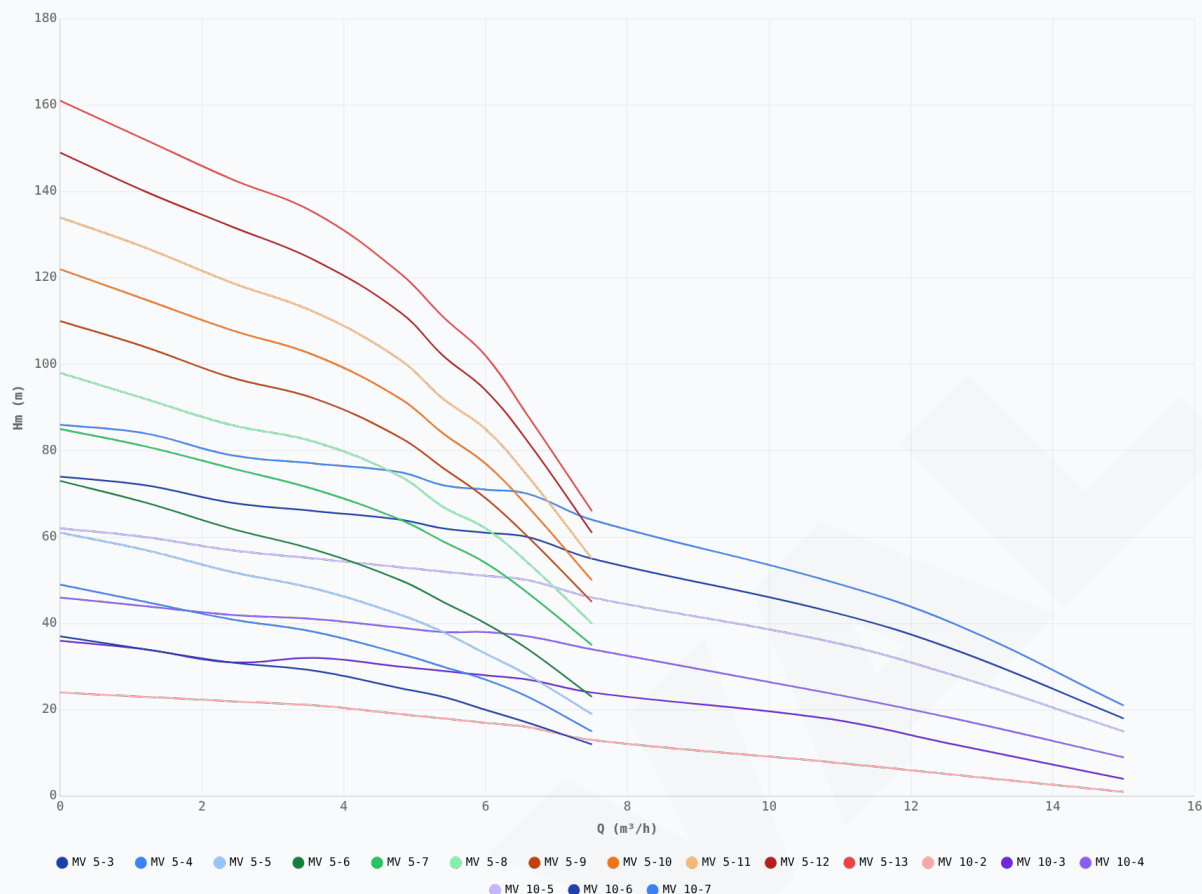


Curvas de caudal (Q) vs. altura manométrica (Hm)

Modelo	kW	CV	A (400V)	m³/h									
				0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	
				Hm (m)									
MV 2-3	0,37	0,50	1,00	30,0	28,0	26,0	24,0	20,0	17,0	12,0	7,0		
MV 2-4	0,55	0,75	1,40	42,0	40,0	37,0	33,0	29,0	23,0	17,0	10,0		
MV 2-5	0,55	0,75	1,40	53,0	50,0	46,0	42,0	36,0	29,0	21,0	12,0		
MV 2-6	0,75	1,00	1,70	66,0	62,0	57,0	52,0	45,0	36,0	26,0	15,0		
MV 2-7	1,10	1,50	2,40	78,0	74,0	67,0	61,0	53,0	43,0	31,0	18,0		
MV 2-8	1,10	1,50	2,40	89,0	84,0	77,0	70,0	60,0	49,0	35,0	20,0		
MV 2-9	1,50	2,00	3,20	100,0	95,0	87,0	79,0	68,0	55,0	39,0	23,0		
MV 2-10	1,50	2,00	3,20	111,0	105,0	96,0	88,0	75,0	61,0	44,0	25,0		
MV 2-11	1,50	2,00	3,20	122,0	116,0	106,0	96,0	83,0	67,0	48,0	28,0		
MV 2-12	2,20	3,00	5,00	134,0	126,0	116,0	105,0	90,0	74,0	53,0	30,0		
MV 2-13	2,20	3,00	5,00	145,0	137,0	125,0	114,0	98,0	80,0	57,0	33,0		
MV 3-3	0,55	0,75	1,40	32,0	30,0	29,0	27,0	25,0	23,0	20,0	15,0	11,0	
MV 3-4	0,55	0,75	1,40	43,0	41,0	39,0	37,0	34,0	31,0	27,0	20,0	15,0	
MV 3-5	0,75	1,00	1,70	56,0	53,0	51,0	48,0	44,0	40,0	34,0	26,0	20,0	
MV 3-6	1,10	1,50	2,40	68,0	65,0	62,0	58,0	54,0	48,0	42,0	32,0	24,0	
MV 3-7	1,10	1,50	2,40	80,0	76,0	73,0	68,0	63,0	57,0	49,0	38,0	28,0	

Modelo	kW	CV	A (400V)	m <sup>3</sup> /h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8
				Hm (m)									
MV 3-8	1,50	2,00	3,20		91,0	87,0	83,0	78,0	72,0	65,0	56,0	43,0	32,0
MV 3-9	1,50	2,00	3,20		102,0	98,0	93,0	88,0	81,0	73,0	63,0	48,0	36,0
MV 3-10	1,50	2,00	3,20		114,0	109,0	104,0	98,0	90,0	81,0	70,0	55,0	40,0
MV 3-11	2,20	3,00	5,00		125,0	120,0	114,0	107,0	99,0	89,0	77,0	59,0	44,0
MV 3-12	2,20	3,00	5,00		137,0	131,0	125,0	117,0	108,0	98,0	84,0	65,0	48,0
MV 3-13	2,20	3,00	5,00		148,0	141,0	135,0	127,0	117,0	106,0	91,0	70,0	52,0

## CURVA DE PERFORMANCE (Q - HM)



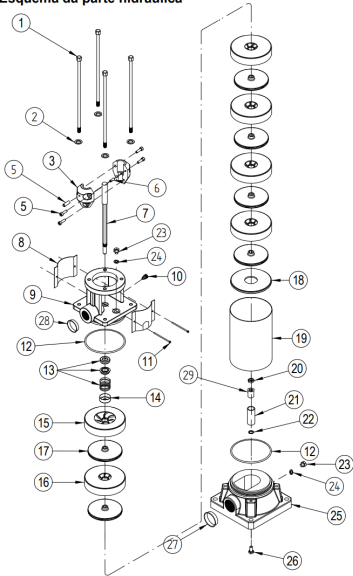
Curvas de caudal (Q) vs. altura manométrica (Hm)

Modelo	kW	CV	A (400V)	m³/h												
				0	1.2	2.4	3.6	4.8	5.4	6	6.6	7.5	10.8	12.6	15	
				Hm (m)												
MV 5-3	0,55	0,75	1,40	37,0	34,0	31,0	29,0	25,0	23,0	20,0	17,0	12,0				
MV 5-4	0,75	1,00	1,70	49,0	45,0	41,0	38,0	33,0	30,0	27,0	23,0	15,0				
MV 5-5	1,10	1,50	2,40	61,0	57,0	52,0	48,0	42,0	38,0	33,0	28,0	19,0				
MV 5-6	1,10	1,50	2,40	73,0	68,0	62,0	57,0	50,0	45,0	40,0	34,0	23,0				
MV 5-7	1,50	2,00	3,20	85,0	81,0	76,0	71,0	64,0	59,0	54,0	47,0	35,0				
MV 5-8	2,20	3,00	5,00	98,0	92,0	86,0	82,0	74,0	67,0	62,0	54,0	40,0				
MV 5-9	2,20	3,00	5,00	110,0	104,0	97,0	92,0	83,0	76,0	69,0	60,0	45,0				
MV 5-10	2,20	3,00	5,00	122,0	115,0	108,0	102,0	92,0	84,0	77,0	67,0	50,0				
MV 5-11	2,20	3,00	5,00	134,0	127,0	119,0	112,0	101,0	92,0	85,0	74,0	55,0				
MV 5-12	3,00	4,00	5,90	149,0	140,0	132,0	124,0	112,0	102,0	94,0	82,0	61,0				
MV 5-13	3,00	4,00	5,90	161,0	152,0	143,0	135,0	121,0	111,0	102,0	88,0	66,0				
MV 10-2	0,75	1,00	1,70	24,0	23,0	22,0	21,0	19,0	18,0	17,0	16,0	13,0	8,0	5,0	1,0	
MV 10-3	1,10	1,50	2,40	36,0	34,0	31,0	32,0	30,0	29,0	28,0	27,0	24,0	18,0	12,0	4,0	
MV 10-4	1,50	2,00	3,20	46,0	44,0	42,0	41,0	39,0	38,0	38,0	37,0	34,0	24,0	18,0	9,0	
MV 10-5	2,20	3,00	5,00	62,0	60,0	57,0	55,0	53,0	52,0	51,0	50,0	46,0	36,0	28,0	15,0	
MV 10-6	2,20	3,00	5,00	74,0	72,0	68,0	66,0	64,0	62,0	61,0	60,0	55,0	43,0	34,0	18,0	

Modelo	kW	CV	A (400V)	m³/h											
				0	1.2	2.4	3.6	4.8	5.4	6	6.6	7.5	10.8	12.6	15
				Hm (m)											
MV 10-7	3,00	4,00	5,90	86,0	84,0	79,0	77,0	75,0	72,0	71,0	70,0	64,0	50,0	40,0	21,0

## LISTA DE MATERIAIS

Esquema da parte hidráulica



Pos.	Descrição	Material (Standard)
1	Tirante	Aço Inoxidável AISI 304 (1.4301)
2	Anilha	Aço Inoxidável AISI 304 (1.4301)
3	Cardan	Ferro fundido
4	Perno	Aço
5	Parafuso M6x10	Aço Inox
6	Pino	Aço Inoxidável AISI 304 (1.4301)
7	Árvore (Veio)	Aço Inoxidável AISI 304 (1.4301)
8	Proteção do Cardan	Aço Inoxidável AISI 304 (1.4301)
9	Suporte do Acoplamento do Motor	Ferro fundido
10	Purgador	Latão / Inox
11	Parafuso M4x70	Aço Inox
12	O-ring 124x4	NBR
13	Empanque Mecânico	SIC / SiC
14	Proteção da Mola do Empanque	Aço Inoxidável AISI 304 (1.4301)
15	Difusor Último Estágio	Noryl
16	Difusor	Noryl
17	Turbina	Noryl

Pos.	Descrição	Material (Standard)
18	Tampa do Difusor	Noryl
19	Camisa Exterior	Aço Inoxidável AISI 304 (1.4301)
20	Fêmea R/E M12	Aço Inoxidável AISI 304 (1.4301)
21	Guia da Árvore	Aço Inoxidável AISI 304 (1.4301)
22	O-ring 14,54x2,62	NBR
23	Taco Inox 1/4	Aço Inoxidável AISI 304 (1.4301)
24	Anilho	Teflon
25	Base	Ferro fundido
26	Parafuso M8x20	Aço Inox
27	Tampa Plástica 1 1/4	Plástico
28	Tampa Plástica 1	Plástico
29	Casquilho da Guia da Árvore	Bronze / Grafite

## CONDIÇÕES DE UTILIZAÇÃO

- A instalação deve ser efectuada por pessoal qualificado.
- Assegurar que a tensão de alimentação é compatível com a tensão da rede.
- Utilizar a bomba dentro dos limites constantes na placa de características.
- Nunca por a bomba a funcionar em seco. Nem mesmo para testar.

**A sua opinião ajuda outros profissionais:** A sua opinião ajuda outros profissionais a escolher com confiança. Pode deixar-nos a sua avaliação no Google:

<https://g.page/r/CQ-zo3RFB7I3EAE/review>