



TECHNICAL DATASHEET

MV Multicellular Electric Pumps

High-performance MV multicellular electric pumps.



MV Multicellular Electric Pumps – Performance and Versatility. MV Multicellular Electric Pumps offer high performance in pumping clean liquids, with flow rates up to 15 m³/h and heads up to 160 m.

APPLICATIONS

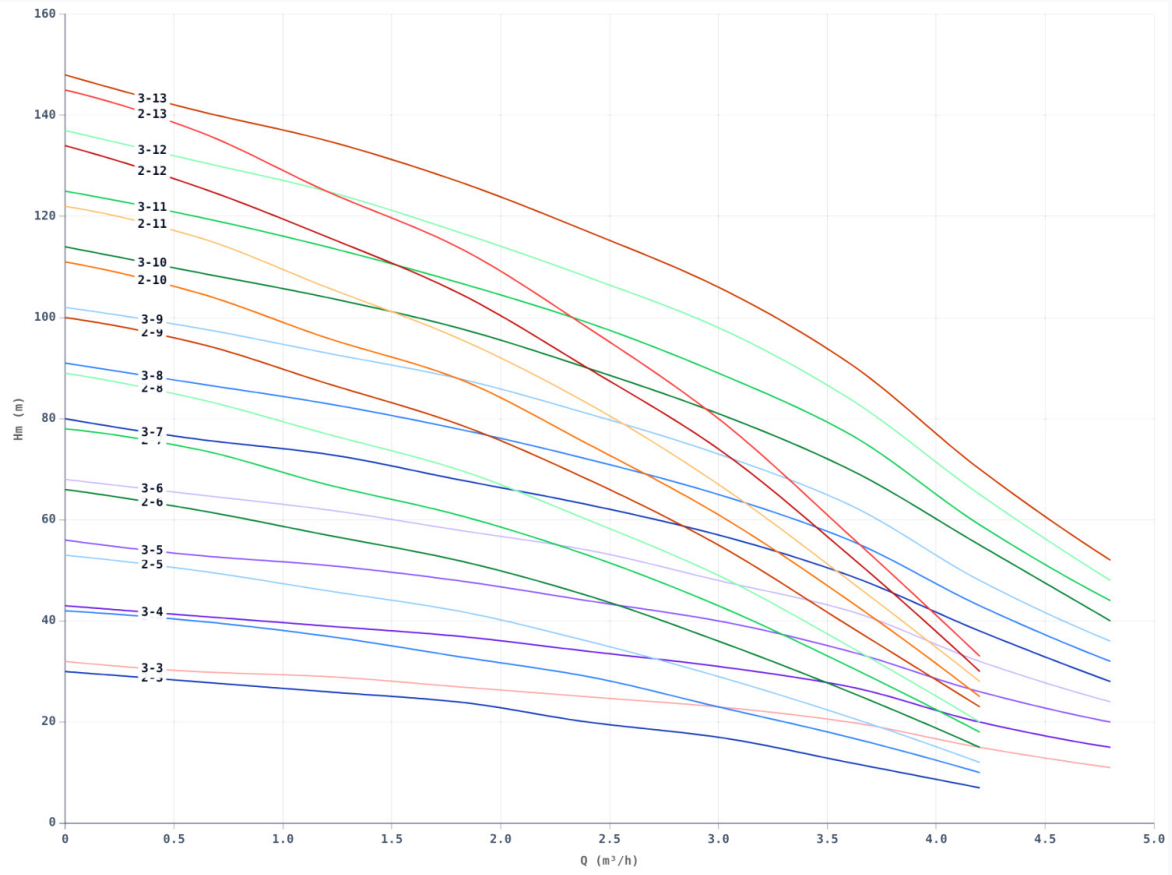
- Industrial processes and liquid transfer.
- Domestic water supply.
- Hydraulic pressure systems
- Water treatment
- Agricultural irrigation
- Sistemas de lavagem industrial

TECHNICAL DATA

TECHNICAL SPECIFICATIONS

Type	Multistage centrifugal pump
Standard	In-line
Motor Details	Hermetically sealed electric motor impregnated with protective resin
Voltage	220-230V (1~) / 380-415V (3~)
Max Flow	15 m ³ /h
Max Head	160 m
Protection	IP 55
Insulation	Class F
Operation	S1 (Serviço Contínuo)

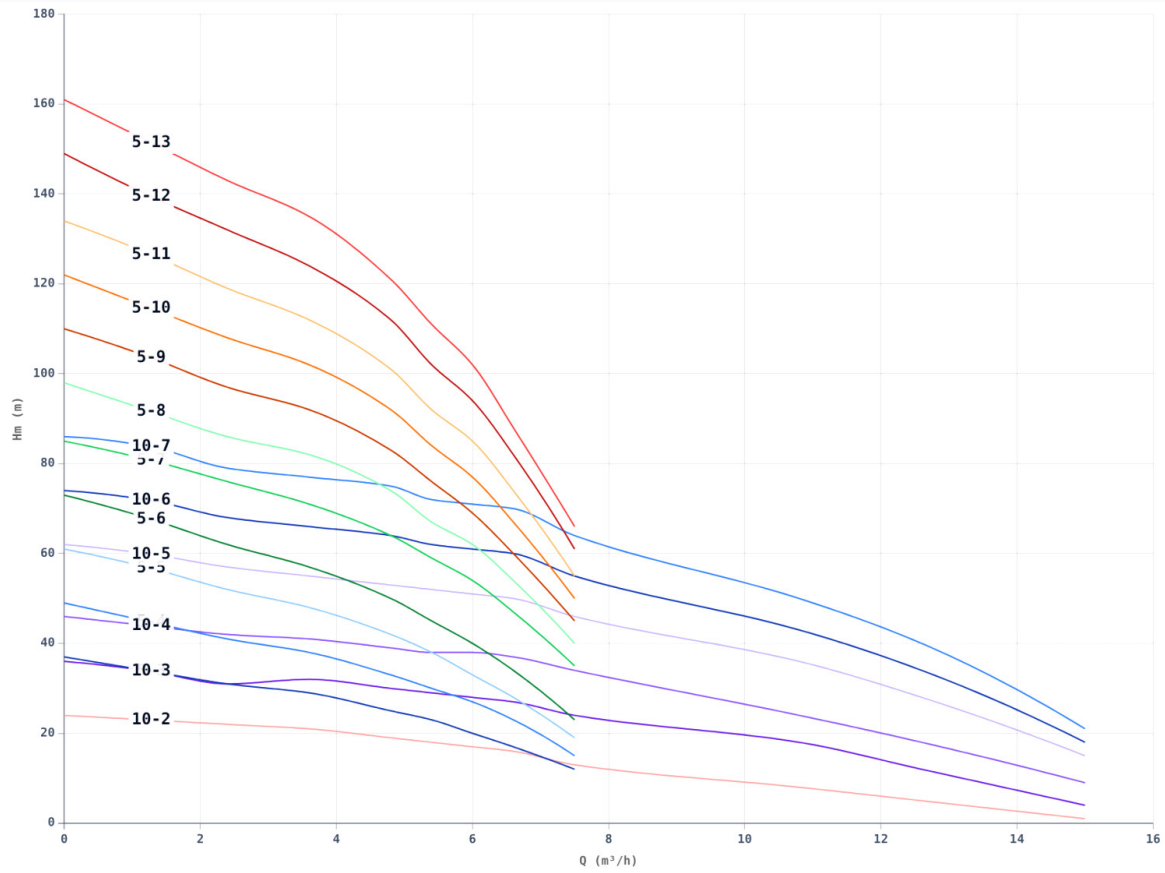
CURVA DE PERFORMANCE (Q - Hm)



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

Model	kW	HP	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
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)

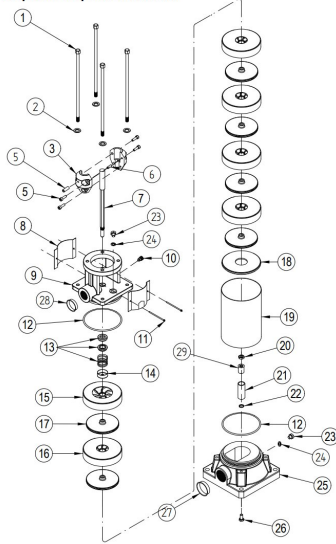


Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	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
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

LIST OF MATERIALS

Esquema da parte hidráulica



Pos.	Description	Material (Standard)
1	Tirante	Stainless Steel AISI 304 (1.4301)
2	Anilho	Stainless Steel AISI 304 (1.4301)
3	Cardan	Cast iron
4	Perno	Aço
5	Parafuso M6x10	Aço Inox
6	Pino	Stainless Steel AISI 304 (1.4301)
7	Árvore (Veio)	Stainless Steel AISI 304 (1.4301)
8	Proteção do Cardan	Stainless Steel AISI 304 (1.4301)
9	Suporte do Acoplamento do Motor	Cast iron
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	Stainless Steel AISI 304 (1.4301)
15	Difusor Último Estágio	Noryl
16	Difusor	Noryl
17	Turbina	Noryl
18	Tampa do Difusor	Noryl
19	Camisa Exterior	Stainless Steel AISI 304 (1.4301)
20	Fêmea R/E M12	Stainless Steel AISI 304 (1.4301)
21	Guia da Árvore	Stainless Steel AISI 304 (1.4301)
22	O-ring 14,54x2,62	NBR
23	Taco Inox 1/4	Stainless Steel AISI 304 (1.4301)
24	Anilho	Teflon
25	Base	Cast iron
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

USAGE CONDITIONS

- 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.
- Never run the pump dry. Not even for a short trial run.