



TECHNICAL DATASHEET

CDMF Vertical Multistage Pump

High-efficiency in-line vertical multistage pumps in stainless steel, ideal for industrial pressure boosting and water treatment.



The CDMF series consists of high-efficiency vertical multistage centrifugal pumps with an in-line design (suction and discharge at the same level). The stainless steel construction and cartridge mechanical seal ensure high durability and ease of maintenance. These pumps are ideal for pressure boosting systems, boiler feed, water treatment, and demanding industrial applications where reliability and energy efficiency are key.

APPLICATIONS

- Industrial processes and liquid transfer.
- Hydraulic pressure systems
- Water treatment
- Agricultural irrigation
- Alimentação de caldeiras
- Sistemas de lavagem e limpeza

TECHNICAL DATA

TECHNICAL SPECIFICATIONS

Type	Multistage centrifugal pump
Standard	In-line / DIN
Material	Aço Inoxidável (AISI 304 / 316)
Voltage	220-240V (1~) / 380-415V (3~)
Max Flow	32 m ³ /h
Max Head	250 m
Protection	IP 55
Insulation	Class F
Liquid temp.	-15°C a +120°C
Maximum Pressure	25 bar / PN25

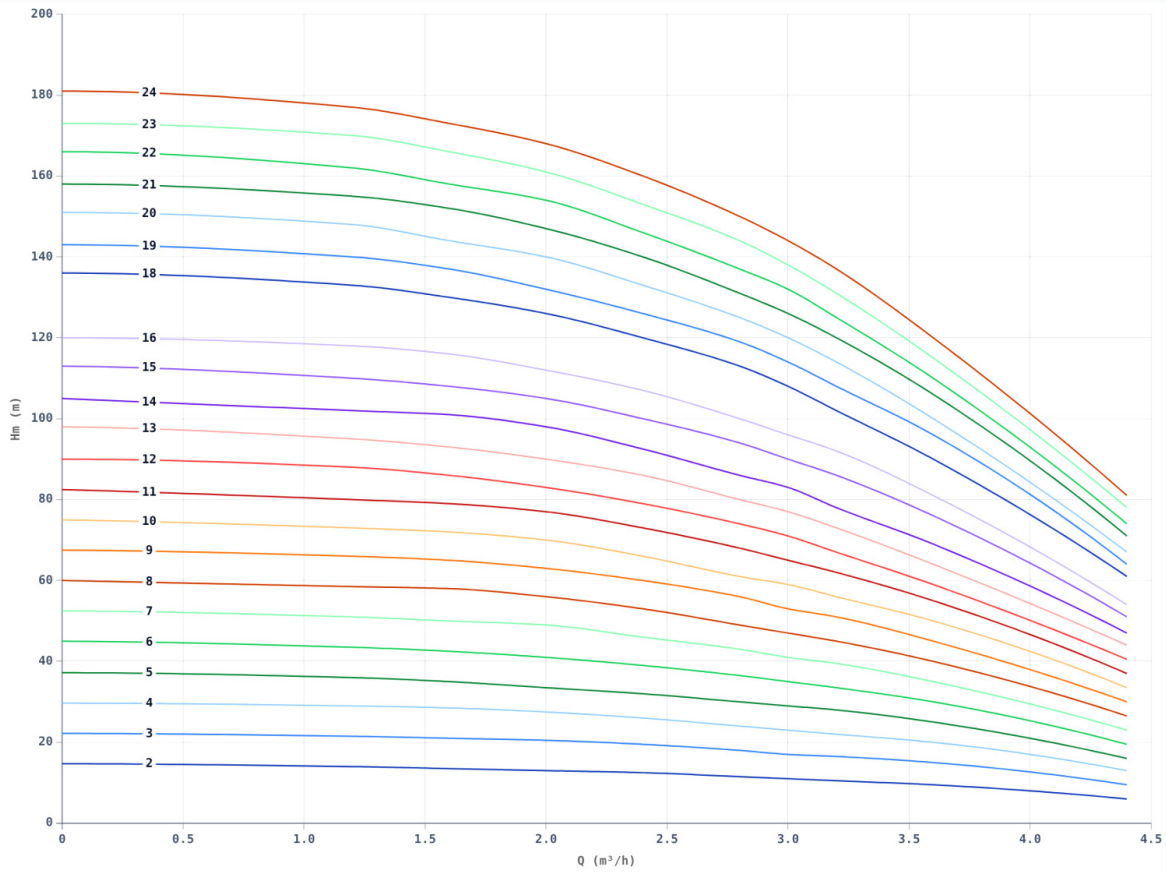
TECHNICAL DETAILS

NPSH	2 m
Nominal Speed	2900 rpm
Standards	CE / ISO 9906
Mechanical Seal	ALLOY/SIC/NBR (Cartridge)
Motor Efficiency	Up to 87%
Pump Efficiency	Up to 72%
Connection Code	F (Flange)

DIMENSIONS

Model	L	LO	L1	L2	W	W1	D	h	h0
CDMF 3	250,0	210,0	158,0	100,0	240,0	180,0	13,0	75,0	50,0
CDMF 5	250,0	210,0	158,0	100,0	240,0	180,0	13,0	75,0	50,0
CDMF 10	280,0	260,0	192,0	130,0	290,0	215,0	14,0	80,0	80,0
CDMF 15	300,0	260,0	192,0	130,0	290,0	215,0	14,0	90,0	90,0
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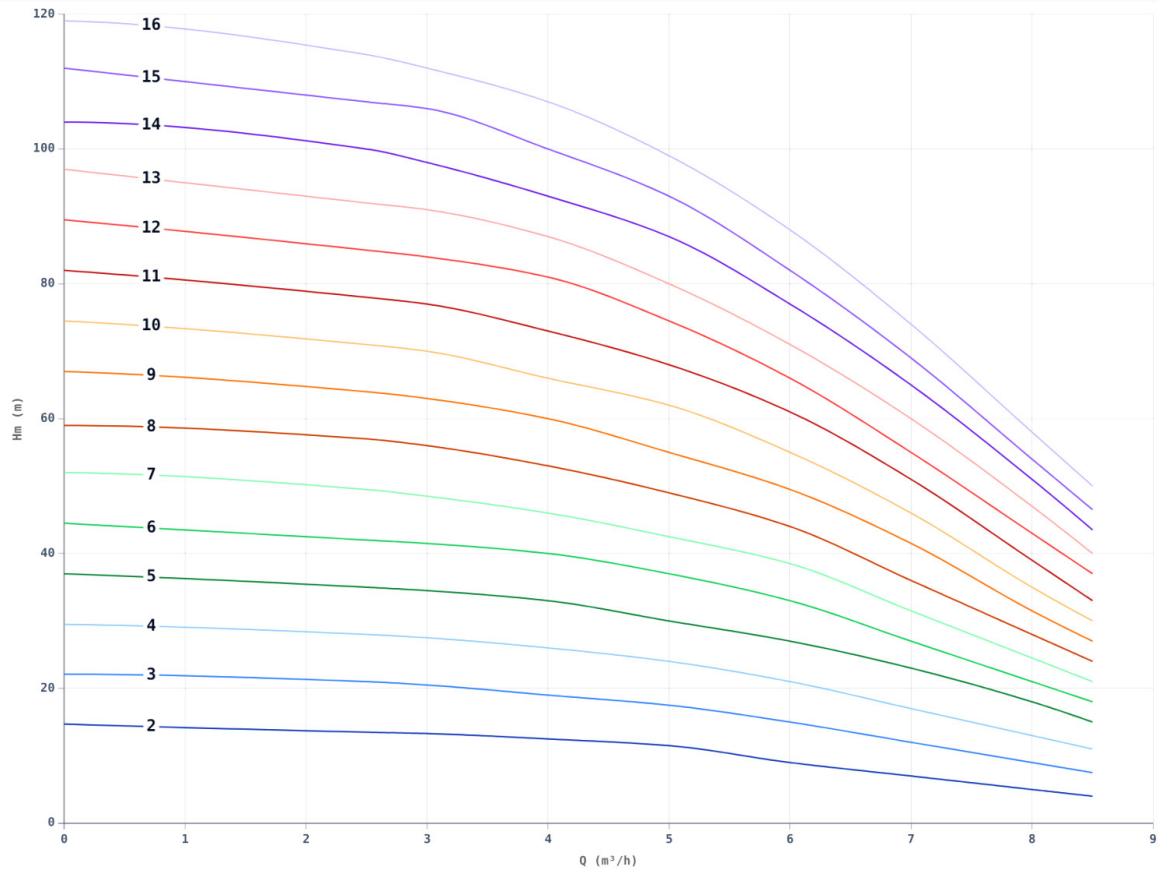
CURVA DE PERFORMANCE (Q - Hm)



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

Model	kW	HP	A (1~230V)	Ef. Energ.	m³/h	0	1.2	1.6	2	2.4	2.8	3	3.2	3.6	4.4
						Hm (m)									
CDMF 3-2	0,37	0,50	2,10	IE2		14,7	14,0	13,5	13,0	12,5	11,5	11,0	10,5	9,5	6,0
CDMF 3-3	0,37	0,50	2,10	IE2		22,2	21,5	21,0	20,5	19,5	18,0	17,0	16,5	15,0	9,5
CDMF 3-4	0,37	0,50	2,10	IE2		29,7	29,0	28,5	27,5	26,0	24,0	23,0	22,0	20,0	13,0
CDMF 3-5	0,55	0,75	3,65	IE2		37,2	36,0	35,0	33,5	32,0	30,0	29,0	28,0	25,0	16,0
CDMF 3-6	0,55	0,75	3,65	IE2		45,0	43,5	42,5	41,0	39,0	36,5	35,0	33,5	30,0	19,5
CDMF 3-7	0,75	1,00	4,20	IE2		52,5	51,0	50,0	49,0	46,0	43,0	41,0	39,5	35,0	23,0
CDMF 3-8	0,75	1,00	4,20	IE2		60,0	58,5	58,0	56,0	53,0	49,0	47,0	45,0	40,0	26,5
CDMF 3-9	1,10	1,50	6,30	IE2		67,5	66,0	65,0	63,0	60,0	56,0	53,0	51,0	45,0	30,0
CDMF 3-10	1,10	1,50	6,30	IE2		75,0	73,0	72,0	70,0	66,0	61,0	59,0	56,0	50,0	33,5
CDMF 3-11	1,10	1,50	6,30	IE2		82,5	80,0	79,0	77,0	73,0	68,0	65,0	62,0	55,0	37,0
CDMF 3-12	1,10	1,50	6,30	IE2		90,0	88,0	86,0	83,0	79,0	74,0	71,0	67,0	59,0	40,5
CDMF 3-13	1,50	2,00	8,20	IE2		98,0	95,0	93,0	90,0	86,0	80,0	77,0	73,0	64,0	44,0
CDMF 3-14	1,50	2,00	8,20	IE2		105,0	102,0	101,0	98,0	92,5	86,0	83,0	78,0	69,0	47,0
CDMF 3-15	1,50	2,00	8,20	IE2		113,0	110,0	108,0	105,0	100,0	94,0	90,0	86,0	76,0	51,0
CDMF 3-16	1,50	2,00	8,20	IE2		120,0	118,0	116,0	112,0	107,0	100,0	96,0	92,0	81,0	54,0
CDMF 3-18	2,20	3,00	12,10	IE2		136,0	133,0	130,0	126,0	120,0	113,0	108,0	102,0	90,0	61,0
CDMF 3-19	2,20	3,00	12,10	IE2		143,0	140,0	137,0	132,0	126,0	119,0	114,0	108,0	96,0	64,0
CDMF 3-20	2,20	3,00	12,10	IE2		151,0	148,0	144,0	140,0	133,0	125,0	120,0	114,0	100,0	67,0
CDMF 3-21	2,20	3,00	12,10	IE2		158,0	155,0	152,0	147,0	140,0	131,0	126,0	120,0	106,0	71,0
CDMF 3-22	2,20	3,00	12,10	IE2		166,0	162,0	158,0	154,0	146,0	137,0	132,0	125,0	110,0	74,0
CDMF 3-23	2,20	3,00	12,10	IE2		173,0	170,0	166,0	161,0	153,0	144,0	138,0	131,0	115,0	78,0
CDMF 3-24	2,20	3,00	12,10	IE2		181,0	177,0	173,0	168,0	160,0	150,0	144,0	137,0	120,0	81,0

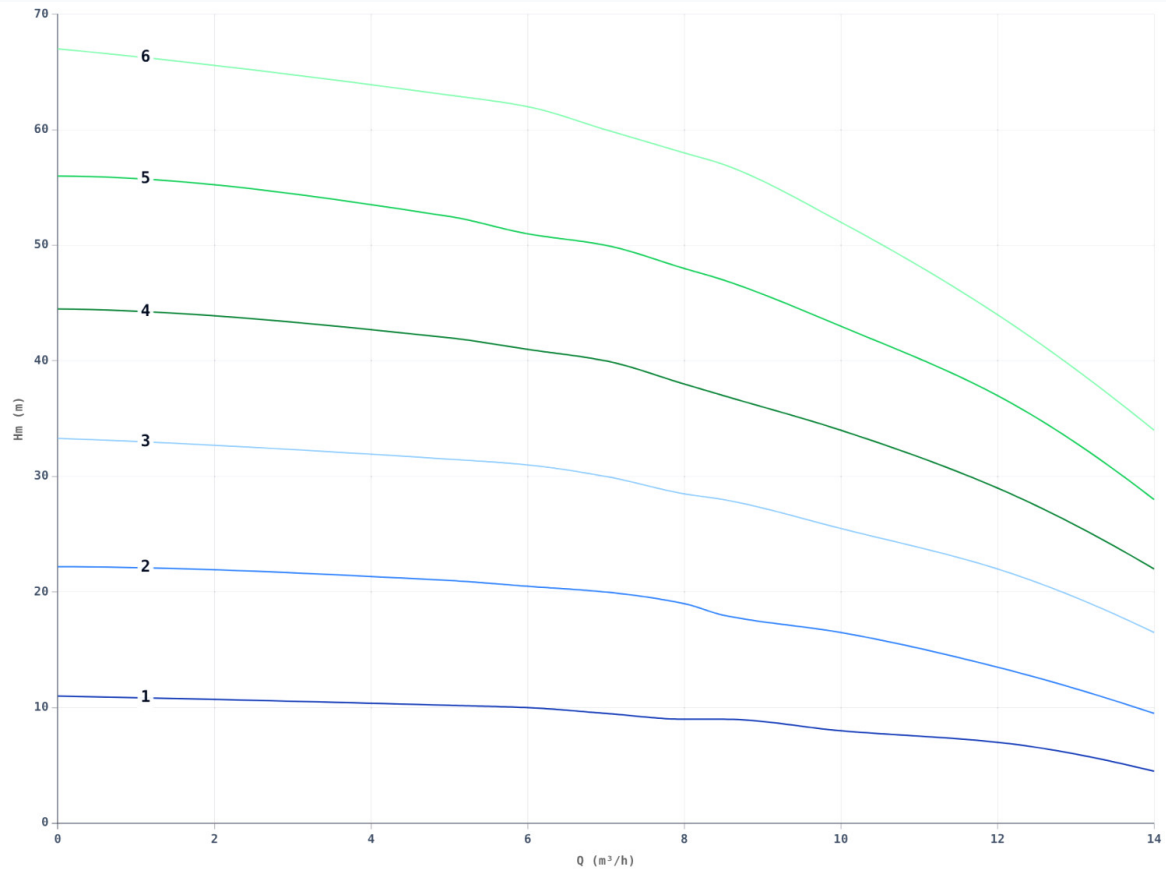
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	A (1~230V)	Ef. Energ.	m³/h	Hm (m)								
						0	2.5	3	4	5	6	7	8	8.5
CDMF 5-2	0,37	0,50	2,10	IE2		14,7	13,5	13,3	12,5	11,5	9,0	7,0	5,0	4,0
CDMF 5-3	0,55	0,75	3,65	IE2		22,1	21,0	20,5	19,0	17,5	15,0	12,0	9,0	7,5
CDMF 5-4	0,55	0,75	3,65	IE2		29,5	28,0	27,5	26,0	24,0	21,0	17,0	13,0	11,0
CDMF 5-5	0,75	1,00	4,20	IE2		37,0	35,0	34,5	33,0	30,0	27,0	23,0	18,0	15,0
CDMF 5-6	1,10	1,50	6,30	IE2		44,5	42,0	41,5	40,0	37,0	33,0	27,0	21,0	18,0
CDMF 5-7	1,10	1,50	6,30	IE2		52,0	49,5	48,5	46,0	42,5	38,5	31,5	24,5	21,0
CDMF 5-8	1,10	1,50	6,30	IE2		59,0	57,0	56,0	53,0	49,0	44,0	36,0	28,0	24,0
CDMF 5-9	1,50	2,00	8,20	IE2		67,0	64,0	63,0	60,0	55,0	49,5	41,5	31,5	27,0
CDMF 5-10	1,50	2,00	8,20	IE2		74,5	71,0	70,0	66,0	62,0	55,0	46,0	35,0	30,0
CDMF 5-11	1,50	2,00	8,20	IE2		82,0	78,0	77,0	73,0	68,0	61,0	51,0	39,0	33,0
CDMF 5-12	2,20	3,00	12,10	IE2		89,5	85,0	84,0	81,0	74,5	66,0	55,0	43,0	37,0
CDMF 5-13	2,20	3,00	12,10	IE2		97,0	92,0	91,0	87,0	80,0	71,0	60,0	47,0	40,0
CDMF 5-14	2,20	3,00	12,10	IE2		104,0	100,0	98,0	93,0	87,0	77,0	65,0	51,0	43,5
CDMF 5-15	2,20	3,00	12,10	IE2		112,0	107,0	106,0	100,0	93,0	82,0	69,0	54,0	46,5
CDMF 5-16	2,20	3,00	12,10	IE2		119,0	114,0	112,0	107,0	99,0	88,0	74,0	58,0	50,0

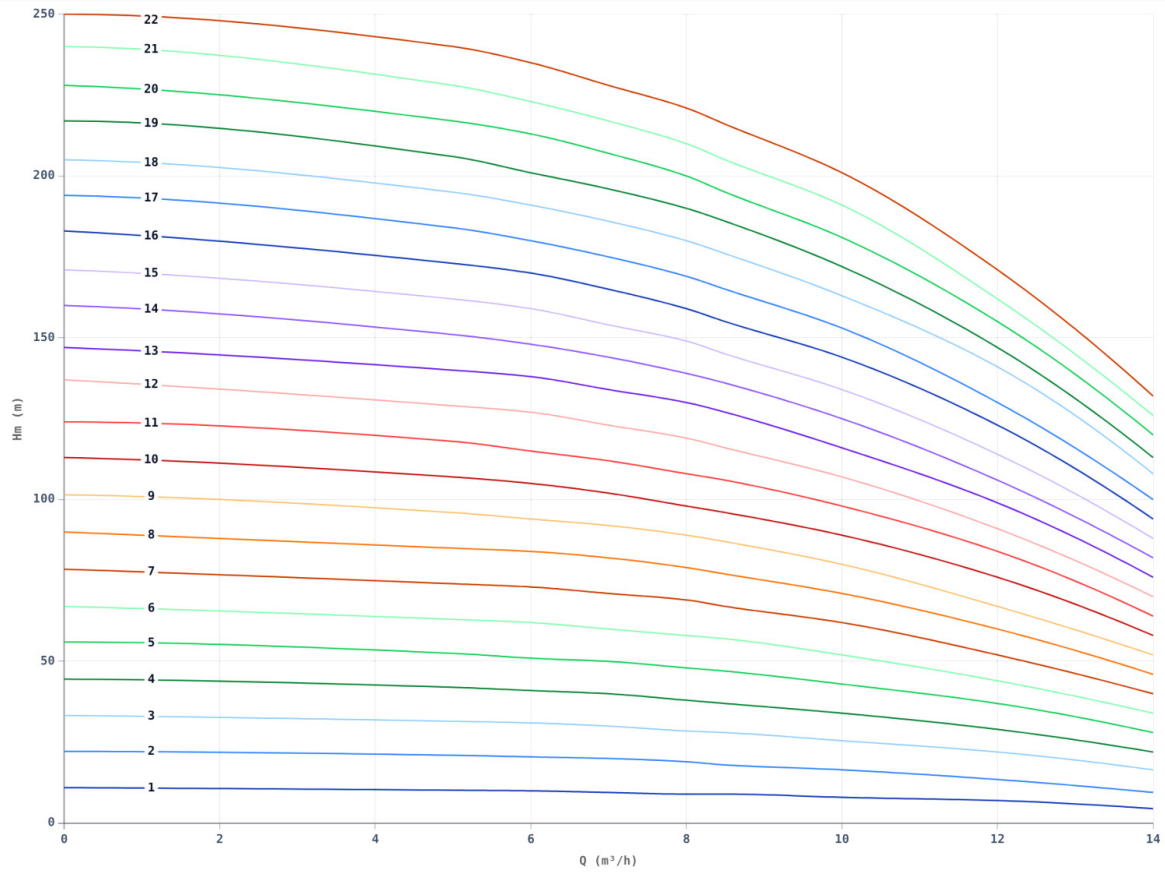
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	A (1~230V)	Ef. Energ.	m³/h	0	5	6	7	8	8.5	10	12	14
						Hm (m)								
CDMF 10-1	0,75	1,00	4,20	IE2		11,0	10,2	10,0	9,5	9,0	9,0	8,0	7,0	4,5
CDMF 10-2	0,75	1,00	4,20	IE2		22,2	21,0	20,5	20,0	19,0	18,0	16,5	13,5	9,5
CDMF 10-3	1,10	1,50	6,30	IE2		33,3	31,5	31,0	30,0	28,5	28,0	25,5	22,0	16,5
CDMF 10-4	1,50	2,00	8,20	IE2		44,5	42,0	41,0	40,0	38,0	37,0	34,0	29,0	22,0
CDMF 10-5	2,20	3,00	12,10	IE2		56,0	52,5	51,0	50,0	48,0	47,0	43,0	37,0	28,0
CDMF 10-6	2,20	3,00	12,10	IE2		67,0	63,0	62,0	60,0	58,0	57,0	52,0	44,0	34,0

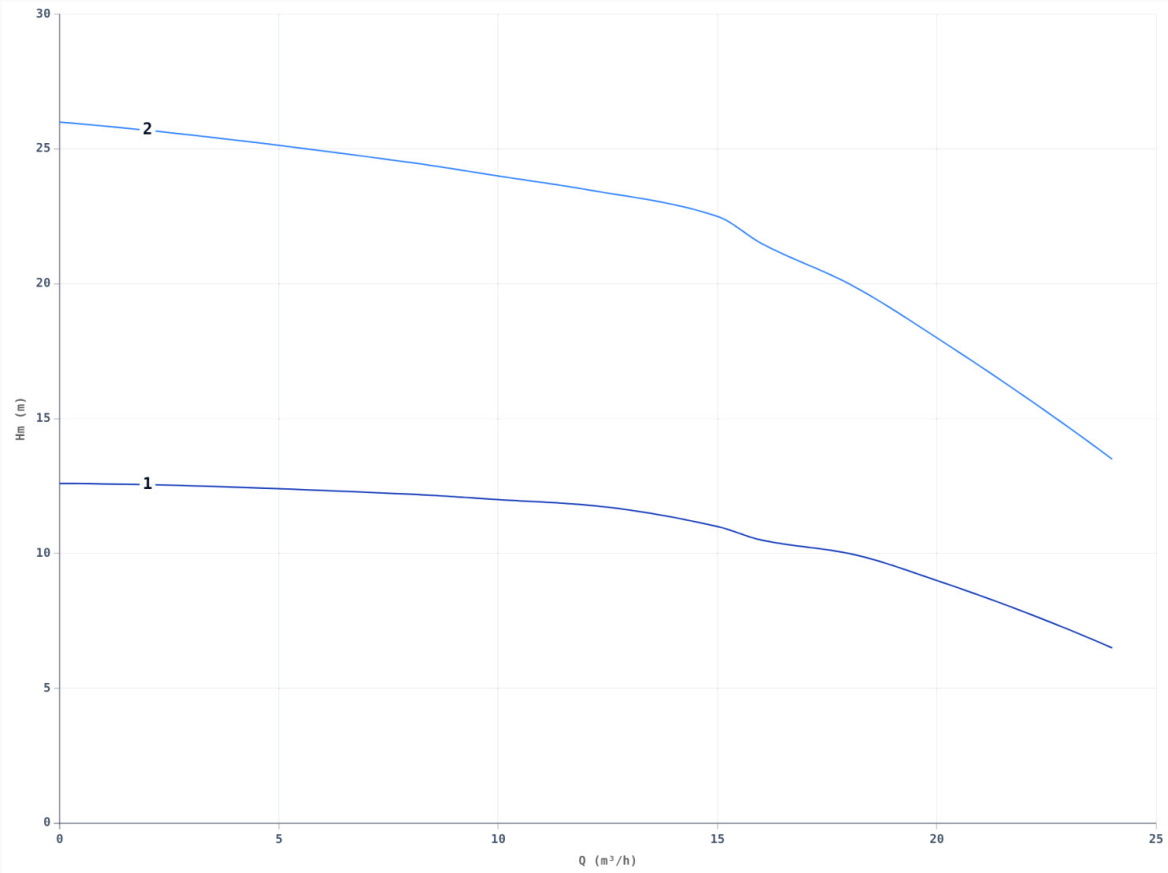
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	A (3-400V)	Ef. Energ.	m³/h	0	5	6	7	8	8.5	10	12	14
						Hm (m)								
CDMF 10-1	0,75	1,00	1,70	IE3		11,0	10,2	10,0	9,5	9,0	9,0	8,0	7,0	4,5
CDMF 10-2	0,75	1,00	1,70	IE3		22,2	21,0	20,5	20,0	19,0	18,0	16,5	13,5	9,5
CDMF 10-3	1,10	1,50	2,40	IE3		33,3	31,5	31,0	30,0	28,5	28,0	25,5	22,0	16,5
CDMF 10-4	1,50	2,00	3,20	IE3		44,5	42,0	41,0	40,0	38,0	37,0	34,0	29,0	22,0
CDMF 10-5	2,20	3,00	4,60	IE3		56,0	52,5	51,0	50,0	48,0	47,0	43,0	37,0	28,0
CDMF 10-6	2,20	3,00	4,60	IE3		67,0	63,0	62,0	60,0	58,0	57,0	52,0	44,0	34,0
CDMF 10-7	3,00	4,00	6,00	IE3		78,5	74,0	73,0	71,0	69,0	67,0	62,0	52,0	40,0
CDMF 10-8	3,00	4,00	6,00	IE3		90,0	85,0	84,0	82,0	79,0	77,0	71,0	60,0	46,0
CDMF 10-9	4,00	5,50	7,80	IE3		101,5	96,0	94,0	92,0	89,0	87,0	80,0	67,0	52,0
CDMF 10-10	4,00	5,50	7,80	IE3		113,0	107,0	105,0	102,0	98,0	96,0	89,0	76,0	58,0
CDMF 10-11	4,00	5,50	7,80	IE3		124,0	118,0	115,0	112,0	108,0	106,0	98,0	84,0	64,0
CDMF 10-12	4,50	6,00	8,80	IE3		137,0	129,0	127,0	123,0	119,0	116,0	107,0	91,0	70,0
CDMF 10-13	5,50	7,50	10,60	IE3		147,0	140,0	138,0	134,0	130,0	127,0	116,0	99,0	76,0
CDMF 10-14	5,50	7,50	10,60	IE3		160,0	151,0	148,0	144,0	139,0	136,0	125,0	106,0	82,0
CDMF 10-15	5,50	7,50	10,60	IE3		171,0	162,0	159,0	154,0	149,0	145,0	134,0	114,0	88,0
CDMF 10-16	7,50	10,00	14,40	IE3		183,0	173,0	170,0	165,0	159,0	155,0	144,0	123,0	94,0
CDMF 10-17	7,50	10,00	14,40	IE3		194,0	184,0	180,0	175,0	169,0	165,0	153,0	130,0	100,0
CDMF 10-18	7,50	10,00	14,40	IE3		205,0	195,0	191,0	186,0	180,0	176,0	163,0	141,0	108,0
CDMF 10-19	7,50	10,00	14,40	IE3		217,0	206,0	201,0	196,0	190,0	186,0	172,0	147,0	113,0
CDMF 10-20	7,50	10,00	14,40	IE3		228,0	217,0	213,0	207,0	200,0	195,0	181,0	155,0	120,0
CDMF 10-21	7,50	10,00	14,40	IE3		240,0	228,0	223,0	217,0	210,0	205,0	191,0	162,0	126,0
CDMF 10-22	11,00	15,00	20,60	IE3		250,0	240,0	235,0	228,0	221,0	216,0	201,0	171,0	132,0

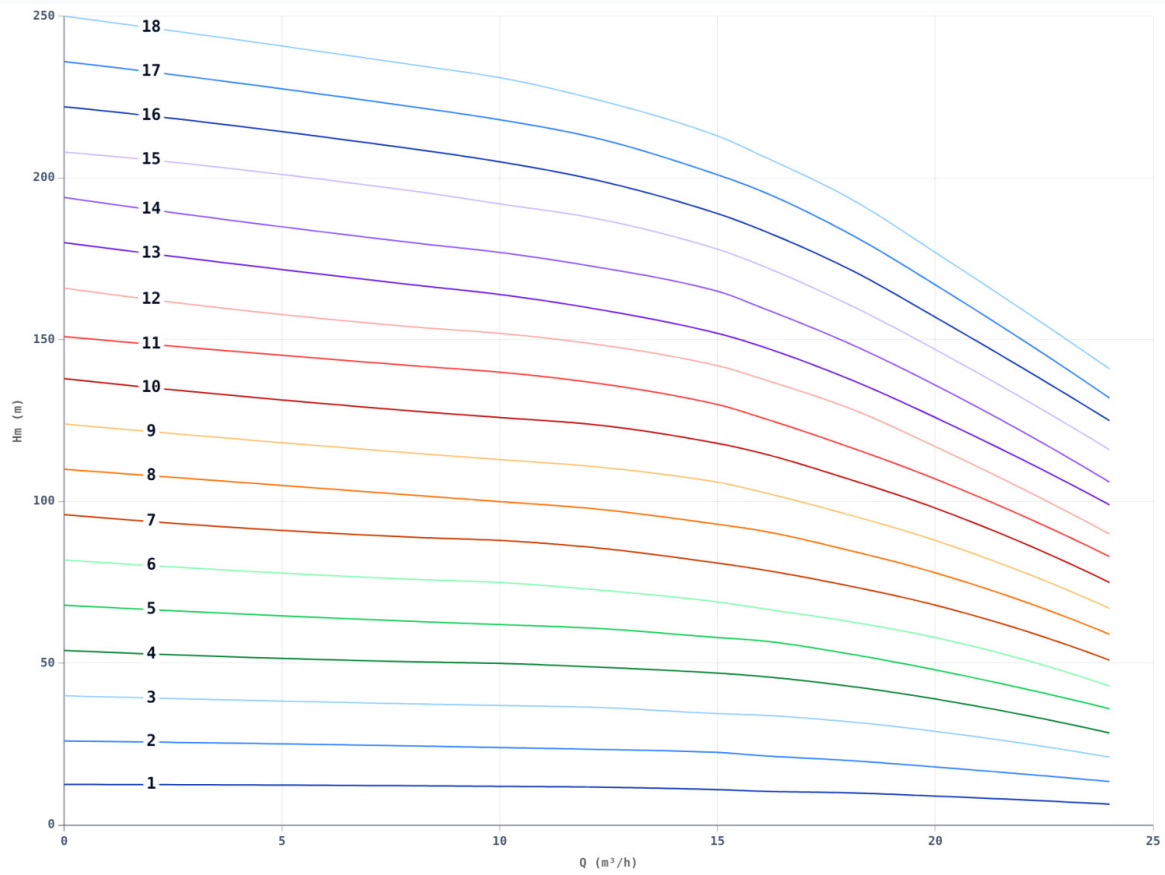
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	A (1~230V)	Ef. Energ.	m³/h								
					0	8	10	12	15	16	18	20	24
CDMF 15-1	1,10	1,50	6,30	IE2	12,6	12,2	12,0	11,8	11,0	10,5	10,0	9,0	6,5
CDMF 15-2	2,20	3,00	12,10	IE2	26,0	24,5	24,0	23,5	22,5	21,5	20,0	18,0	13,5

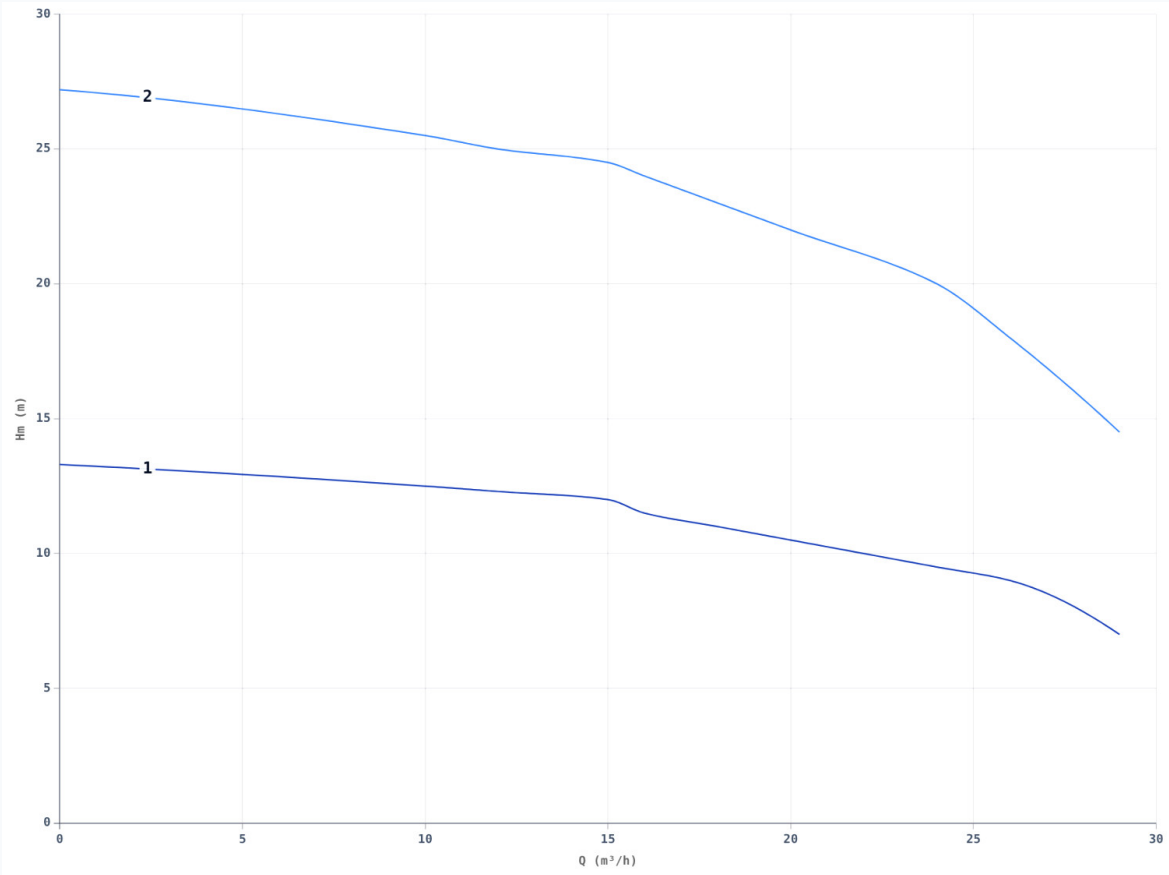
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	A (3~400V)	Ef. Energ.	m³/h									
					0	8	10	12	15	16	18	20	24	
					Hm (m)									
CDMF 15-1	1,10	1,50	2,40	IE3	12,6	12,2	12,0	11,8	11,0	10,5	10,0	9,0	6,5	
CDMF 15-2	2,20	3,00	4,60	IE3	26,0	24,5	24,0	23,5	22,5	21,5	20,0	18,0	13,5	
CDMF 15-3	3,00	4,00	6,00	IE3	40,0	37,5	37,0	36,5	34,5	34,0	32,0	29,0	21,0	
CDMF 15-4	4,00	5,50	7,80	IE3	54,0	50,5	50,0	49,0	47,0	46,0	43,0	39,0	28,5	
CDMF 15-5	4,00	5,50	7,80	IE3	68,0	63,0	62,0	61,0	58,0	57,0	53,0	48,0	36,0	
CDMF 15-6	5,50	7,50	10,60	IE3	82,0	76,0	75,0	73,0	69,0	67,0	63,0	58,0	43,0	
CDMF 15-7	5,50	7,50	10,60	IE3	96,0	89,0	88,0	86,0	81,0	79,0	74,0	68,0	51,0	
CDMF 15-8	7,50	10,00	14,40	IE3	110,0	102,0	100,0	98,0	93,0	91,0	85,0	78,0	59,0	
CDMF 15-9	7,50	10,00	14,40	IE3	124,0	115,0	113,0	111,0	106,0	103,0	96,0	88,0	67,0	
CDMF 15-10	11,00	15,00	20,60	IE3	138,0	128,0	126,0	124,0	118,0	115,0	107,0	98,0	75,0	
CDMF 15-11	11,00	15,00	20,60	IE3	151,0	142,0	140,0	137,0	130,0	126,0	117,0	107,0	83,0	
CDMF 15-12	11,00	15,00	20,60	IE3	166,0	154,0	152,0	149,0	142,0	138,0	129,0	117,0	90,0	
CDMF 15-13	11,00	15,00	20,60	IE3	180,0	167,0	164,0	160,0	152,0	148,0	138,0	126,0	99,0	
CDMF 15-14	11,00	15,00	20,60	IE3	194,0	180,0	177,0	173,0	165,0	160,0	149,0	136,0	106,0	
CDMF 15-15	15,00	20,00	27,90	IE3	208,0	196,0	192,0	188,0	178,0	173,0	161,0	147,0	116,0	
CDMF 15-16	15,00	20,00	27,90	IE3	222,0	209,0	205,0	200,0	189,0	184,0	172,0	157,0	125,0	
CDMF 15-17	15,00	20,00	27,90	IE3	236,0	222,0	218,0	213,0	201,0	196,0	183,0	167,0	132,0	
CDMF 15-18	15,00	20,00	27,90	IE3	250,0	235,0	231,0	225,0	213,0	207,0	194,0	177,0	141,0	

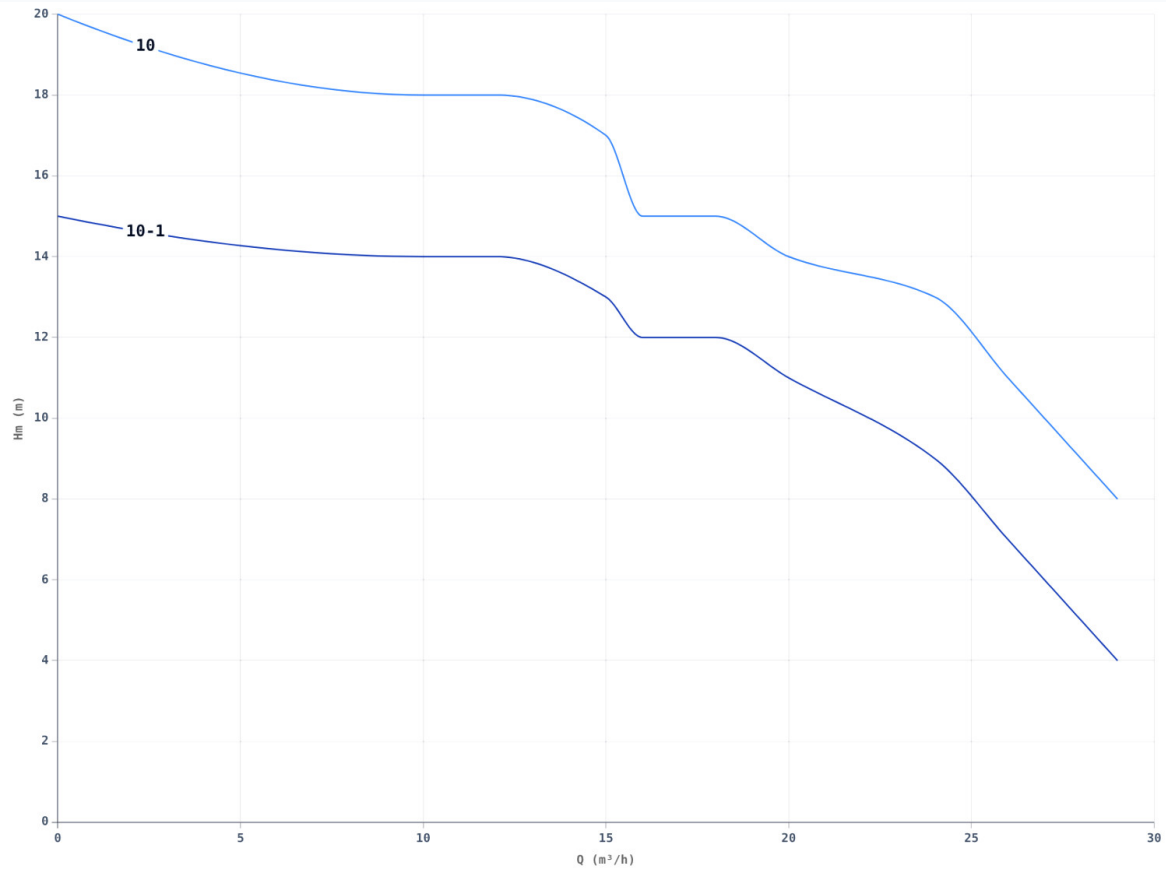
CURVA DE PERFORMANCE (Q - HM)



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

Model	kW	HP	A (1~230V)	Ef. Energ.	m³/h	0	10	12	15	16	18	20	24	26	29
					Hm (m)										
CDMF 20-1	1,10	1,50	6,30	IE2		13,3	12,5	12,3	12,0	11,5	11,0	10,5	9,5	9,0	7,0
CDMF 20-2	2,20	3,00	12,10	IE2		27,2	25,5	25,0	24,5	24,0	23,0	22,0	20,0	18,0	14,5

CURVA DE PERFORMANCE (Q - HM)



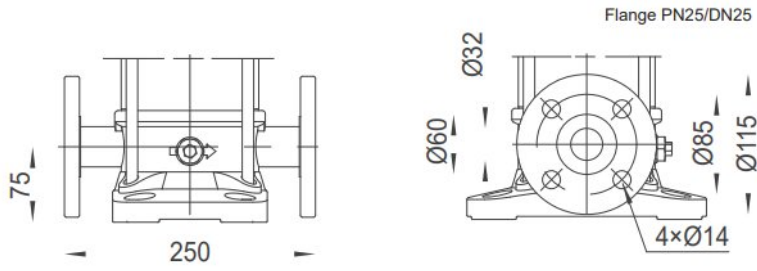
Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	A (1~230V)	Ef. Energ.	m³/h	0	16	20	24	28	32	36	40
					Hm (m)								
CDMF 32-10-1	1,10	1,50	8,20	IE2		15,0	14,0	13,0	12,0	11,0	9,0	7,0	4,0
CDMF 32-10	2,20	3,00	12,10	IE2		20,0	18,0	17,0	15,0	14,0	13,0	11,0	8,0

LIST OF MATERIALS

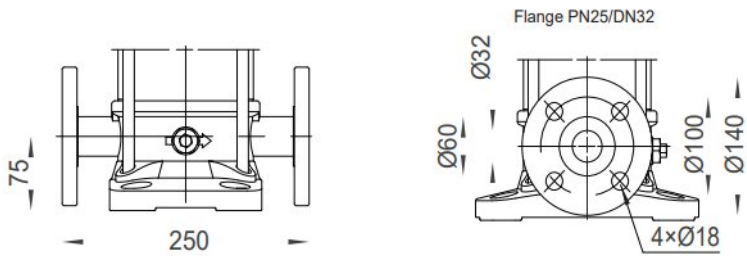
Pos.	Description	Material (Standard)
1	Motor	-
2	Motor bracket	Cast iron
3	Seal base	Stainless steel (AISI 304/316)
4	Mechanical seal	Cartridge type
5	Discharge	Stainless steel (AISI 304/316)
6	Staybolt	Stainless steel (AISI 304/316)
7	Diffuser	Stainless steel (AISI 304/316)
8	Impeller	Stainless steel (AISI 304/316)
9	Shaft	Stainless steel (AISI 304/316)
10	Coupling	Carbon steel
11	Inlet	Stainless steel (AISI 304/316)
12	Base plate	Cast iron

DIMENSÕES FLANGE CDMF 3



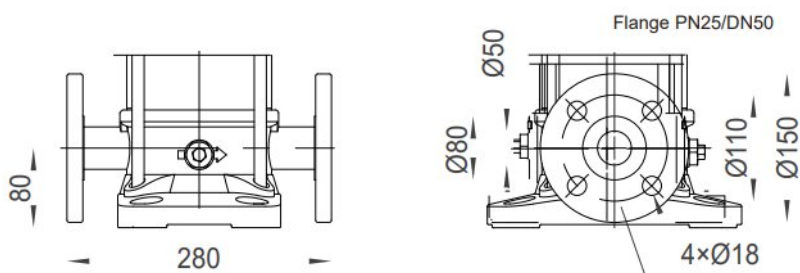
CDMF 3

DIMENSÕES FLANGE CDMF 5



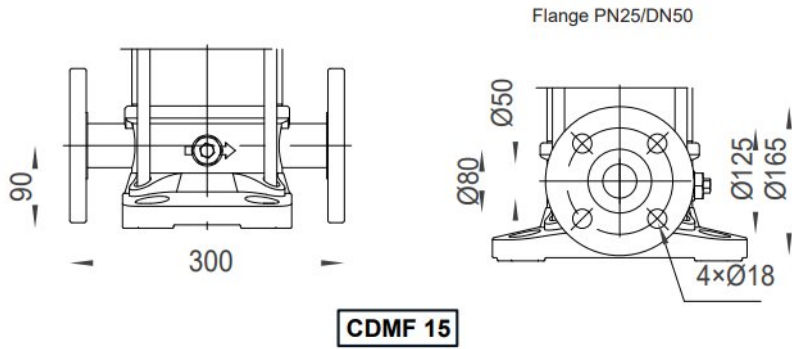
CDMF 5

DIMENSÕES FLANGE CDMF 10



CDMF 10

DIMENSÕES FLANGE CDMF 15



DIMENSÕES FLANGE CDMF 20

