

NAFSA - VM SERIES

VM50
VM50 24Vdc

- Magnetic holding under no power
- Class B winding (130°C)
- 100% duty cycle
- Up to 2000N force
- Customer specific version available



PRODUCT DESCRIPTION

The VM series holds under no power through use of a permanent magnet.

When the voltage is applied, the holding force is removed.

Please ensure safe operating conditions are met when using this type of holding electromagnet.

TECHNICAL DATA

Duty cycle	100 %
Insulation class	B(130°C)
IP class	IP65
Power	10 W
Total weight	440 g
Voltage dc max	24 V
Voltage type	DC

TYPE	P at 20°C (W)	Thickness of the piece to hold (mm)	Air gap (mm) δ_L			Magnetic Force Fm (N)
			0	0.1	0.2	
VM20	2.6	1	18	5	1	
		3	18	5	1	
		10	18	5	1	
VM25	4.3	1	20	7	3	
		3	23	7	4	
		10	29	10	7	
VM30	4.5	1	24	10	5	
		3	45	10	6	
		10	52	14	7	
VM40	7	1	39	29	22	
		3	108	57	29	
		10	128	58	37	
VM50	10	1	43	30	28	
		3	129	110	75	
		10	226	125	80	
VM65	14	1	44	35	25	
		3	266	203	140	
		10	374	238	145	
VM80	18	1	44	35	25	
		3	294	267	217	
		10	588	362	256	
VM100	25	1	45	35	25	
		3	299	282	262	
		10	1000	745	519	
VM150	45	1	93	75	60	
		3	415	350	320	
		10	2000	1500	1300	



TYPE	AA (4-3)	B	Cat. V	D	E	F	Weight(g)
VM 20	20	M-3	25	5	—	—	0.04
VM 25	25	M-4	27	5	—	40	0.06
VM 30	30	M-4	28	5	—	45	0.17
VM 40	40	M-5	30	6	—	55	0.34
VM 50	50	M-5	35	8	—	65	0.44
VM 65	65	M-6	40	8	—	80	0.74
VM 85	80	M-6	45	8	127	95	1.42
VM 100	100	M-10	60	10	145	115	2.20
VM 150	150	M-16	85	15	197	165	8.90