

## NAFSA - VM SERIES

VM100

- 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	25 W
Total weight	2200 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) $\delta_L$			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(kg)
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	112	80	0.74
VM 85	85	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