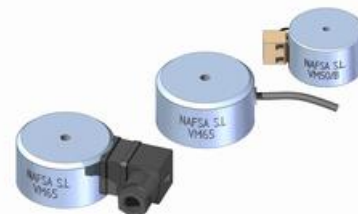




NAFSA - VM SERIES

VM20

- 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 | 2,6 W |
| Total weight | 40 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 | Cable | 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 | — | 80 | 0.74 |
| VM 85 | 85 | M-6 | 45 | 8 | 112 | 95 | 1.42 |
| VM 100 | 100 | M-10 | 60 | 10 | 145 | 115 | 2.20 |
| VM 150 | 150 | M-16 | 65 | 15 | 191 | 165 | 8.90 |