

VM SERIE

The attraction and holding of magnetic pieces are made by permanent magnets mounted in the electromagnet, with these kind of products we avoid the risk of load falling down due to sudden power supply failure. The power supply on the coil allows to loose the load, when this power supply stops, the product recovers its initial force.

When working with suspended loads, security norms must be respected.



Air gap (mm) δ_L

0.1

5

7

0.2

6

75

256

262

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Magnetic Force

45

Protection rate: IP65 Insulation class: B (130°C)	Table 1							
Standard voltage: 24VDC Standard duty cycle: ED100% Different voltage, ED or size: Consult	TYPE	øA (-0,3)	В	C±0.1	D	E	F	Weight(Kg)
	VM 20 VM 25	20 25	M-3 M-4	25 27	5 5		 40	0.04 0.06
Flying leads for every size	VM 30	30	M-4	28	5		45	0.17
Supply possibilities under demand: With campling screw from the VM25	VM 40 VM 50	40 50	M-5 M-5	30 35	6 6		55 65	0.24 0.44
With connector from the VM65. The connector (1) has 4 possibilities of direction (4x90°)	VM 65 VM 80	65 80	M-8 M-8	40 45	8 8	112 127	80 95	0.74 1.42
and it is possible to be incorporated to the same diodes of rectification for alterning current connection (AC).	VM 100 VM 150	100 150	M-10 M-16	50 65	10 15	147 197	115 165	2.20 6.60

P at 20°C

(W)

2.6

4.3

TYPE

VM20

VM25

VM30

VM40

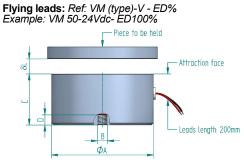
VM50

VM65

Thickness of the

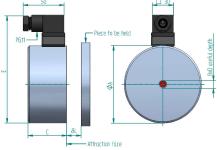
10

piece to hold (mm)

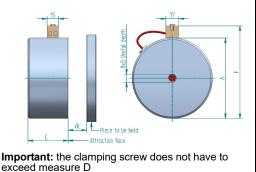


Connector (C): Ref: VM (type)/C-V-ED% Example: VM65/C-24Vdc ED100% Connection:

see documentation that is enclosed with the material



Clamping screw (B): Ref: VM(type)/B-V-ED% Example: VM50/B-24Vdc-ED100%



VM80 VM100 VM150 The table 2 gives for each type of holding magnet, the values of the force

of maintenance (Fm) based on the air gap, measured in the following conditions:

-Holding magnet without voltage.

Flat piece (3μ m rugosity) in A^oSt37, thickness as shown in the table 2 and dimensions are similar or bigger than the attraction face. -Room temperature 35°C.

-Coil working on its regime temperature.

At different conditions, the magnetic force(Fm) may decrease. The value of the magnetic remanence after the power supply stops is 5% of the holding force.

.Earthing is recommended if the metallic parts are accessible. Technical explanation: see page 4 & 5.

Under demand: any size, voltage, duty cycle etc can be manufactured.

When lifting or handling heavy loads a minimum security margin of 3 must be respected, the weight of the load cannot exceed 33% of the magnetic force.