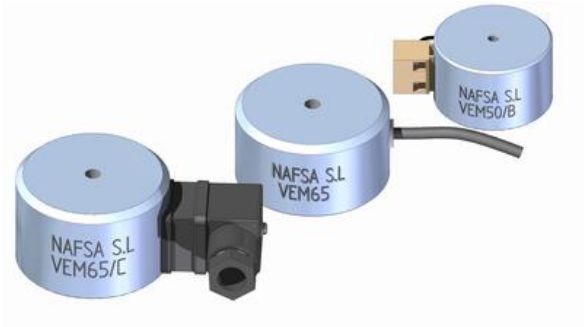
OEM Automatic Ltd
Address: Whiteacres, Whetstone Leicester, LE8 6ZG
0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

NAFSA - VEM SERIES

VEM20
VEM20



- Power to create holding force
- Class B winding (130ºC)
- 100% duty cycle
- Up to 7104N force
- Customer specific version available

PRODUCT DESCRIPTION

The VEM series holds by applying a voltage to the coil.

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

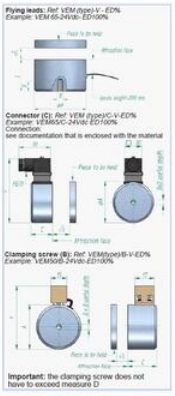
Please ensure safe operating conditions are met when using this type of holding electromagnet.

TECHNICAL DATA

Insulation class	B(130ºC)
IP class	IP65
Power	1.6 W
Total weight	20 g
Voltage dc max	24 V
Voltage type	DC

TYPE	P at 20ºC (W)	e (mm)	Air gap (mm) δ_L					Magnetic Force Fm (N)
			0	0,1	0,2	0,5	1	
VEM20	1,6	1	14,5	3,8	1,6	0,3		
		3	27	5,7	2,6	0,35		
VEM25	3,2	1	27	19	12	3		
		3	114	47	20	3,5		
		6	135	50	21	3,7		
VEM30	4	1	37	24	18	6	1,5	
		3	170	80	40	9,5	1,6	
		6	190	90	45	12	2	
VEM40	5,6	1	38	30	24	13	4	
		3	300	203	133	27	4,5	
		6	400	245	160	30	5	
VEM50	6,5	1	40	32	30	20	15	
		3	320	235	185	65	16	
		6	500	370	240	68	20	
VEM65	10	1	45	40	35	25	15	
		3	310	290	250	148	40	
		6	830	660	500	164	46	
		10	980	750	560	190	50	
VEM80	15	1	65	42	40	30	20	
		3	430	360	325	230	90	
		6	1150	970	830	375	110	
		10	2000	1350	1000	420	125	
VEM100	20	1	70	50	45	35	25	
		3	530	440	426	335	225	
		6	1400	1200	1050	730	310	
		10	2600	2200	1700	880	330	
VEM150	40	3	700	580	550	480	390	
		6	1810	1650	1580	1400	1100	
		10	5800	4350	3910	3000	1850	
		18	7104	5760	4992	3840	2400	

e (mm): Thickness of the piece to hold



TYPE	øA (-0,2)	B	C±0,1	D	E	F	Weight(g)
VEM 20	20	M-3	12	5	—	—	0,02
VEM 25	25	M-4	20	5	—	40	0,05
VEM 30	30	M-4	22	6	—	45	0,10
VEM 40	40	M-5	26	8	—	55	0,20
VEM 50	50	M-6	30	8	—	65	0,30
VEM 65	65	M-8	35	12	112	80	0,80
VEM 80	80	M-8	38	12	127	90	1,30
VEM 100	100	M-10	43	15	147	115	2,10
VEM 150	150	M-16	56	24	197	165	6,40