

ERM SERIE

The attraction and holding of the magnetic pieces are obtained by feeding the winding inside the solenoid. When the power supply stops, the solenoid loses the piece. When working with loads, security norms must be respected.

Protection rate: IP65
Insulation class: B (130°C)
Nominal Voltage: 24VDC
Standard duty cycle: ED100%
Other voltages, ED and sizes: Consult



Table 1

TYPE	A	B	C	D	E	F	H	N° of holes	Compression gland	Weight(kg)
ERM100/35	125					10		2		0.9
ERM150/35	175					10		3		1
ERM200/35	225					10		4		1.5
ERM400/35	425	35±0.3	34±0.1	25	50	12	M-6	8	PG-9	2.8
ERM500/35	525					12		10		3.5
ERM600/35	625					12		12		4.5
ERM150/60	180			40	70			2		2.3
ERM200/60	230	60±0.1	49.5±0.2	40	120	12	M-8	2	PG-11	3
ERM500/60	530			70	120			4		7.8

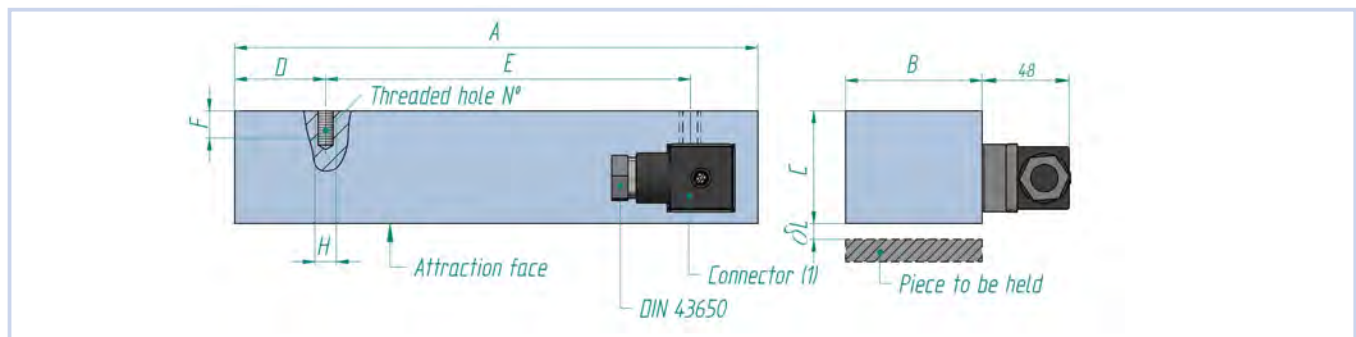


Table 2

TYPE	P at 20°C (W)	e (mm)	Airgap (mm)				
			0	0,1	0,2	0,5	1
ERM100/35	10	1	32	22	12	8	6
		3	396	308	120	45	8
		6	604	320	190	52	12
		10	752	468	238	60	18
ERM150/35	14	1	65	50	30	21	14
		3	769	580	220	82	17
		6	1090	657	368	90	21
		10	1450	904	490	116	35
ERM200/35	18	1	80	60	42	28	14
		3	928	720	260	94	20
		6	1400	810	460	121	27
		10	1758	1108	690	136	46
ERM400/35	30	1	172	131	91	60	35
		3	2100	1460	537	210	45
		6	3060	1722	962	263	60
		10	3810	2371	1297	304	93
ERM500/35	45	1	210	150	100	60	36
		3	2323	1806	674	234	56
		6	3540	2100	1114	295	70
		10	4423	2745	1501	330	117
ERM600/35	53	1	226	173	90	66	40
		3	2653	2053	706	266	66
		6	4053	2266	1286	346	80
		10	5026	3120	1806	400	120
ERM150/60	25	1	140	112	102	75	50
		3	780	680	600	445	180
		6	1800	1490	1100	610	200
		10	1900	1500	1250	650	210
ERM200/60	40	1	205	165	155	116	72
		3	1130	990	890	680	250
		6	2550	2160	1800	884	280
		10	2760	2300	1870	900	300
ERM500/60	75	1	553	440	397	310	190
		3	3150	2630	2320	1800	780
		6	7250	5870	4650	2380	850
		10	7450	5950	4820	2410	910

Magnetic force Fm (N)

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:
- Direct current supply.
- Flat piece (3µ m rugosity) in A°St37, 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.

- Alternating current connection (AC):
Only for sizes ERM150/60 to ERM500/60.
- Earthing is recommended if the metallic parts are accessible.
- Mounting, supply possibilities and ordering code: to see 11.3
- Technical explanations: to see documents 1.4 and 1.5
- Under demand: any size, voltage, duty cycle etc can be manufactured

Ordering code:
Size; Voltage; Duty cycle
Example: Ref.: ERM150/35 24Vdc 100%
To other configurations see document 12.3

e= Thickness of the piece to hold



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.