

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 |

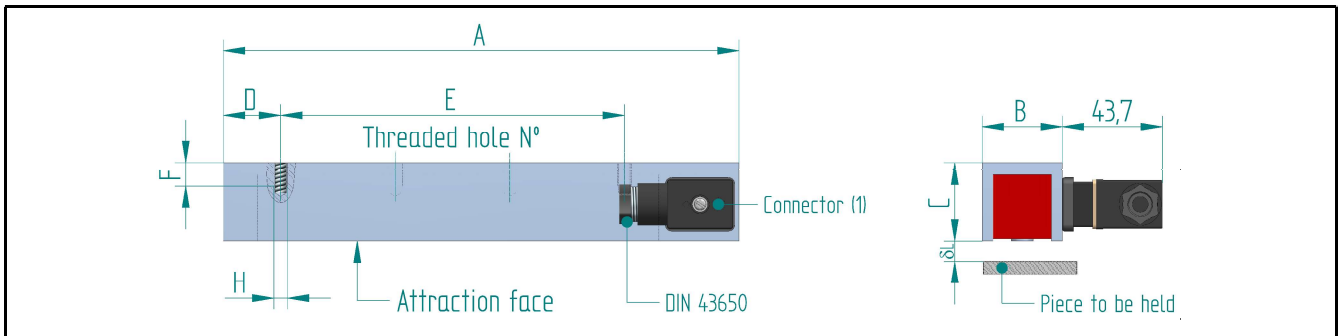


Table 2

| TYPE | P at 20°C (W) | e (mm) | Airgap (mm) | | | | | Magnetic force Fm (N) |
|-----------|---------------|--------|-------------|------|------|------|-----|-----------------------|
| | | | 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 | |
| ERM150/35 | 14 | 1 | 65 | 50 | 30 | 21 | 14 | |
| | | 3 | 769 | 580 | 220 | 82 | 17 | |
| | | 6 | 1090 | 657 | 368 | 90 | 21 | |
| ERM200/35 | 18 | 1 | 80 | 60 | 42 | 28 | 14 | |
| | | 3 | 928 | 720 | 260 | 94 | 20 | |
| | | 6 | 1400 | 810 | 460 | 121 | 27 | |
| ERM400/35 | 30 | 1 | 172 | 131 | 91 | 60 | 35 | |
| | | 3 | 2100 | 1460 | 537 | 210 | 45 | |
| | | 6 | 3060 | 1722 | 962 | 263 | 60 | |
| ERM500/35 | 45 | 1 | 210 | 150 | 100 | 60 | 36 | |
| | | 3 | 2323 | 1806 | 674 | 234 | 56 | |
| | | 6 | 3540 | 2100 | 1114 | 295 | 70 | |
| ERM600/35 | 53 | 1 | 226 | 173 | 90 | 66 | 40 | |
| | | 3 | 2653 | 2053 | 706 | 266 | 66 | |
| | | 6 | 4053 | 2266 | 1286 | 346 | 80 | |
| ERM150/60 | 25 | 1 | 140 | 112 | 102 | 75 | 50 | |
| | | 3 | 780 | 680 | 600 | 445 | 180 | |
| | | 6 | 1800 | 1490 | 1100 | 610 | 200 | |
| ERM200/60 | 40 | 1 | 205 | 165 | 155 | 116 | 72 | |
| | | 3 | 1130 | 990 | 890 | 680 | 250 | |
| | | 6 | 2550 | 2160 | 1800 | 884 | 280 | |
| 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 | |

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 (3µm 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: page 104.
 - Technical explanations: see pages 4 & 5.
 - Under demand: any size, voltage, duty cycle etc can be manufactured.

Ordering code: Size--V ED---%
 Voltage: 24Vdc; Duty cycle: ED100%
 ERM150/35 24Vdc 100%
 For other configurations see page 104

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.