

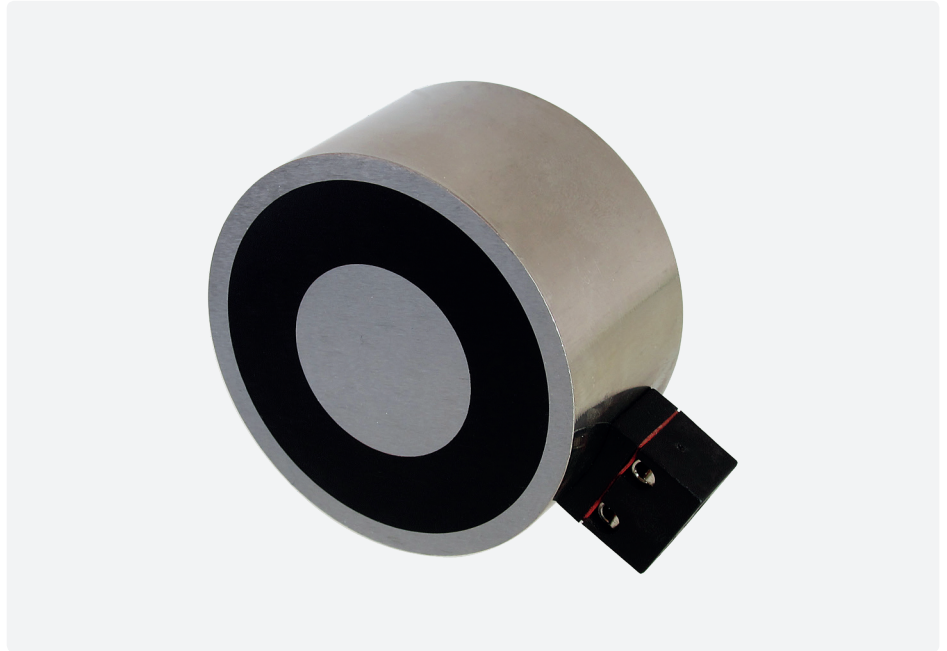
# Electro-Holding Magnet: 80mm



## Energise To Hold

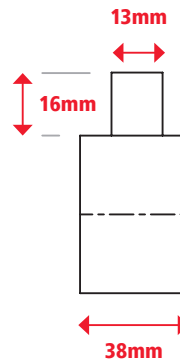
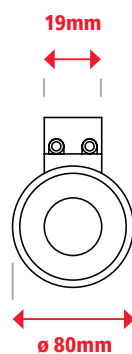
### Technical Data

|                                   |  |
|-----------------------------------|--|
| <b>Mountings</b>                  | Threaded holes in rear face              |
| <b>Finish</b>                     | Bright nickel-plated with machined face  |
| <b>Weight</b>                     | 1203g                                    |
| <b>Typical Holding Force</b>      | 2000N                                    |
| <b>ED Rating</b>                  | 100%                                     |
| <b>IP Rating</b>                  | 20                                       |
| <b>Standard Operating Voltage</b> | 12VDC M52183/12VDC<br>24VDC M52183/24VDC |
| <b>Current</b>                    | 12V - 1116mA<br>24V - 580mA              |
| <b>Typical Power</b>              | 13W                                      |
| <b>Connection Type</b>            | 12VDC & 24VDC<br>Two-pole connector      |

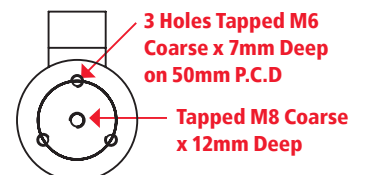


### Recommended Armature Plate

|                    |                      |
|--------------------|----------------------|
| <b>Finish</b>      | Bright nickel-plated |
| <b>Diameter</b>    | 80mm                 |
| <b>Height</b>      | 10mm                 |
| <b>Screw</b>       | M6                   |
| <b>Part Number</b> | M52171/80ARM         |
| <b>Weight</b>      | 400g                 |



### Connecting Block



| Air Gap (mm) | Pull Force* (N) |
|--------------|-----------------|
| 0.00         | 2000            |
| 0.09         | 1560            |
| 0.18         | 1117            |
| 0.27         | 715             |
| 0.36         | 567             |
| 0.59         | 283             |
| 1.00         | 130             |
| 1.59         | 67              |
| 2.00         | 37              |
| 4.00         | 20              |

### \* +/- 10% at room temperature

To achieve the optimum pull force 100% contact area must be achieved using the recommended armature plate. The force will be affected if other material specifications, thicknesses and surfaces are used, or if the armature fails to make positive contact over the full diameter of the face of the magnet.

Where misalignment is likely to be an issue we recommend that an oversized armature plate is used to ensure 100% full contact, this however will reduce the stated pull force by approximately 10%.