

The solenoid magnet is designed to convert electrically operated solenoid valve into a hand-operated valve to enable service engineers to operate valves manually.

The magnet greatly assists during installation, recovery of refrigerants, commissioning and decommissioning of plant and machinery.

# Permanent Magnet

**SOLENOID VALVE  
OPERATING MAGNETS**

SERVICE & COMMISSIONING TOOL FOR  
THE MANUAL OPERATION OF  
SOLENOID VALVES



ID	Colour	Fitment Range	Part Number
10mm	White	up to 10mm Armature or Coil ID (1.5 Kg Pull)	MAGNET 10
15mm	Orange	up to 15mm Armature or Coil ID (1.5 Kg Pull)	MAGNET 15
18mm	Red	up to 18mm Armature or Coil ID (1.5 Kg Pull)	MAGNET 18
20mm	Blue	up to 20mm Armature or Coil ID (40 Kg Pull)	MAGNET 20
24mm	YELLOW	up to 24mm Armature or Coil ID (40 Kg Pull)	MAGNET-24

### OPTIONS

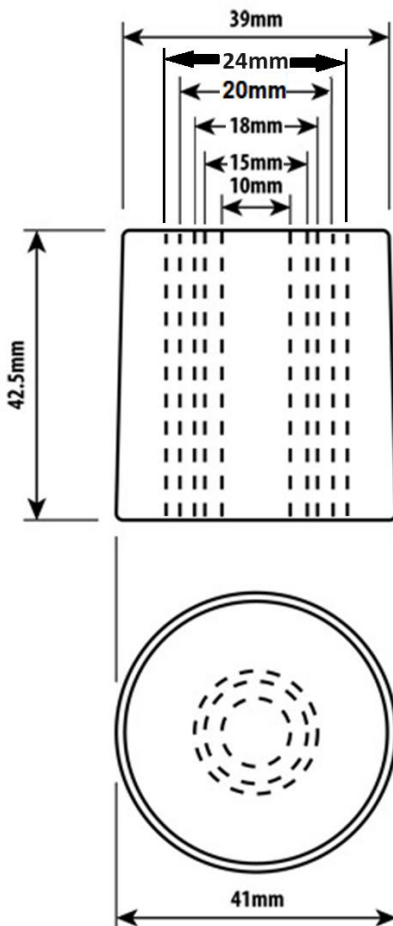
Other colours available upon request

### CONSTRUCTION

Injection moulded ABS plastic housing Magnetic stability is high, low demagnetisation when exposed to external magnetic fields  
Maximum working temperature +250°C

MAGNETS 10, 15 + 18	Magnetic strength 1500 Gauss flux density in total. (1.5Kg pull) Unit consists of three separate magnets with 1200 Gauss each encapsulated in strong ABS corrosion resistant casing. Enough to open most general-purpose solenoid valves
MAGNET 20+24	Magnetic strength 40000 Gauss flux density. (40Kg pull) Unit consists of three separate N42 (NdFeB) Neodymium super strength magnets Enough to open any solenoid valve

### OVERALL DIMENSIONS



Suitable for Refrigeration, Water, Oil, Air-conditioning, gas, Air installations and other plant and machinery where solenoid valves require opening and closing manually. The Solenoid Valve Operating Magnet has been designed and manufactured to solve the problem of how to operate Solenoid Valves when a system is not under power. The Magnet is the same shape and size of a large cotton reel and, when placed on top of a Solenoid Valve with the coil removed, causes the armature to open or close.

This means that the device can be used to operate valves in a plant or system that has yet to be wired up. It eliminates the need to wire up the system or worry about the correct voltages. It can also be used when recovering refrigerant from a plant that has already been decommissioned and power removed. In emergencies, such as the failure of a Solenoid Valve coil, it can also be used to keep a system operating while a replacement coil is found.

### HOW TO USE THE SOLENOID VALVE OPERATING MAGNET

1. Simply remove the electrically operated coil, making sure that the power is switched off.
2. Place the solenoid magnet (widest diameter at the bottom) fully over the valve stem.
3. A click should be heard; this means the valve is in the energised position.
4. If no click is heard, simply turn the magnet the other way up and repeat as above.
5. When the manual operation is complete, simply replace the electrically operated coil for normal operation.

### WARNING

**DO NOT ENERGISE THE ELECTRICALLY OPERATED COIL UNLESS IT IS SEATED ON THE VALVE STEM CORRECTLY.**

**Keep away from heart pacemakers and magnetically stored data**