

**SAV 241.41**

**PERMANENT ELECTRO HOLDING MAGNET**

Electrically deactivated permanent magnet

**APPLICATION**

Because the permanent electro magnetic workholding system is active when the device is de-energised, these chucks are preferably used where long holding times are required and no holding force is required only for short periods or occasionally. They are also used as safety magnets in transport systems and lifting gear, as the load is reliably held during a power failure. To achieve the rated holding force, the steel surfaces of the contact side must be fully covered by the workpiece.

**DESIGN**

The chucks consist of a permanent magnet system for holding ferromagnetic workpieces and an excitation winding. When activated, the excitation winding neutralises the magnetic field on the contact surface and the workpieces can be removed/released. If the excitation winding is switched concordantly, the rated force increases. Depending on the area of application, the applicable accident prevention regulations must be observed.



**TECHNICAL DATA**

The technical information (chapter 1.4) must be observed when using the devices.

- Rated voltage: 24 V DC
- Insulation material class: E
- Protection rating: Device IP 65 (as per DIN 40050)
- Duty cycle: 100 % duty cycle

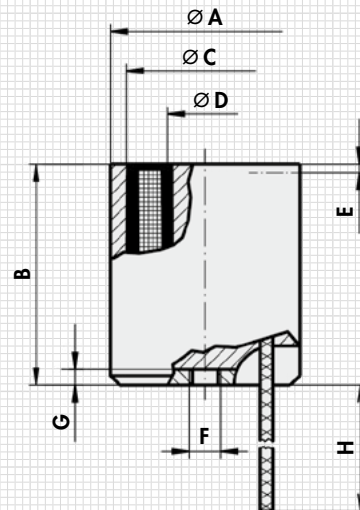
**INFORMATION ON TECHNICAL DATA:**

The max. holding forces are stated for steel 1.0037 and refer to the optimum workpiece thickness with an air gap of  $\delta L = 0$  mm and 100 % coverage of the contact surface. The values are listed for operating temperature. No thermal overload occurs with continuous operation. The occurring overtemperature, however, increases the residual holding force.

If different conditions apply to the application, the rated holding force is reduced (see Technical information, chapter 1.4).

For safety reasons, a safety factor should be used depending on the application.

The table values for the rated capacity are maximum values for determining the electrical accessory parts and refer to 20 °C excitation winding temperature at rated voltage (VDE 0580/10.70 § 9.1). During operation, the rated power reduces depending on the proportional duty cycle.



| mm   |    |    |      |   |     |   |     | N                   | mm                         | V                    | W     | kg     |
|------|----|----|------|---|-----|---|-----|---------------------|----------------------------|----------------------|-------|--------|
| A    | B  | C  | D    | E | F   | G | H   | Rated holding force | Optimum coverage thickness | Deactivation voltage | Power | Weight |
| 32.2 | 40 | 28 | 15.5 | 2 | M 4 | 5 | 200 | 260                 | >10.0                      | 24                   | 6     | 0.2    |

**ORDERING EXAMPLE**

|                                  |            |
|----------------------------------|------------|
| Designation                      | SAV no.    |
| Permanent electro holding magnet | SAV 241.41 |