

DOJA Barcelona 1353

DOJA Industrial Solenoid Coil 9300/RA6 CASTEL 230V User Manual

Model: 1353

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the DOJA Industrial Solenoid Coil 9300/RA6 CASTEL. Please read this manual thoroughly before using the product and retain it for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product:

- **Electrical Hazard:** This device operates on 230V AC. Installation and maintenance should only be performed by qualified personnel. Disconnect power before installation or servicing.
- **Proper Voltage:** Ensure the power supply voltage matches the coil's rated voltage (230V). Incorrect voltage can cause overheating and damage.
- **Temperature:** The coil can reach high temperatures during operation (up to 110°C). Avoid direct contact during and immediately after use.
- **Environmental Conditions:** Do not expose the coil to excessive moisture, corrosive substances, or extreme temperatures outside its operating range.
- **Secure Mounting:** Ensure the coil is securely mounted to prevent vibration or accidental dislodgement.

3. PRODUCT OVERVIEW

The DOJA Industrial Solenoid Coil 9300/RA6 CASTEL is designed for industrial applications requiring electromagnetic actuation. It features a robust alloy steel construction and an 11mm core diameter, suitable for various valve systems.



Image 1: Front view of the DOJA Industrial Solenoid Coil 9300/RA6 CASTEL, showing its black casing and label with specifications.

4. SETUP AND INSTALLATION

Follow these general steps for installing the solenoid coil:

1. **Power Disconnection:** Ensure all power to the system is disconnected at the main circuit breaker before beginning installation.
2. **Mounting:** Carefully slide the solenoid coil onto the valve stem or plunger mechanism. Ensure it fits snugly and is correctly aligned.
3. **Securing:** Use any provided retaining clips or nuts to firmly secure the coil in place. Avoid over-tightening, which could damage the coil or valve.
4. **Electrical Connection:** Connect the coil's electrical terminals to the appropriate 230V AC power supply. Ensure correct polarity if specified, although AC coils typically do not have strict polarity requirements. Use appropriate wire gauges and connectors.
5. **Verification:** Double-check all connections and mounting for security and correctness.
6. **Power Restoration:** Restore power to the system and test the solenoid's operation.

5. OPERATING INSTRUCTIONS

The solenoid coil operates by converting electrical energy into mechanical motion. When 230V AC power is applied to the coil, it generates a magnetic field that actuates a plunger or valve stem, opening or closing a fluid path or engaging a mechanism. When power is removed, the magnetic field collapses, and the plunger returns to its original position, typically by spring force.

- **Activation:** Apply 230V AC to the coil terminals to activate.
- **Deactivation:** Remove 230V AC from the coil terminals to deactivate.
- **Duty Cycle:** Refer to the specifications for the coil's duty cycle. Continuous operation beyond its rated duty cycle can lead to overheating and premature failure.

6. MAINTENANCE

The DOJA Industrial Solenoid Coil is designed for minimal maintenance. However, periodic checks can extend its lifespan and ensure reliable operation:

- **Visual Inspection:** Regularly inspect the coil for any signs of physical damage, discoloration (indicating overheating), or loose connections.
- **Cleanliness:** Keep the coil free from dust, dirt, and debris, which can impede heat dissipation.
- **Connection Integrity:** Ensure electrical connections remain tight and free from corrosion.
- **Operating Environment:** Verify that the operating environment remains within the specified temperature and humidity ranges.

7. TROUBLESHOOTING

If the solenoid coil is not functioning as expected, consider the following common issues:

- **Coil Not Actuating:**
 - Check if power is supplied to the coil (230V AC).
 - Verify electrical connections are secure.
 - Ensure the coil is correctly mounted and not obstructed.
 - Check for internal coil damage (e.g., open circuit) using a multimeter.
- **Coil Overheating:**
 - Confirm the supply voltage matches the coil's rating (230V).
 - Check for continuous operation beyond the rated duty cycle.
 - Ensure adequate ventilation around the coil.
 - Verify the plunger or valve mechanism is not sticking, causing the coil to draw excessive current.
- **Weak Actuation:**
 - Check for low supply voltage.
 - Ensure the coil is fully seated on the plunger/valve.

If problems persist, consult a qualified technician.

8. SPECIFICATIONS

Feature	Specification
Brand	DOJA Barcelona
Model Number	1353
Voltage	230 Volts
Core Diameter	11 mm (implied from product title)
Material	Alloy Steel
Color	Black
Shape	Round
Number of Pieces	1
Package Dimensions	6.2 x 5.2 x 4 cm
Weight	180 grams

9. WARRANTY AND SUPPORT

DOJA Barcelona is committed to providing high-quality products and excellent customer service. While specific warranty details are not provided in this manual, please refer to your purchase documentation or contact DOJA Barcelona customer support for information regarding warranty coverage and technical assistance.

For support, please visit the official DOJA Barcelona website or contact your retailer.