

Presentation

High performance motorized lock **SPINDLE LATCH** (patented), based on the ball bearings bit system as a means for locking the shank.

The motorized lock is used for the opening, closing and locking with pull -in of sterilizers to ensure that the door is locked and sealed before the cycle starts.

The METEOR motorized door lock does not require manual operations to latch the door with the handle; it will be sufficient to push the door closed and the shank will be retained and closed by a spring.

For locking and pulling in the door, the gear motor squeezes the bit on the shank (1) which will cause the simultaneous pull effect on the door. The task of pulling the door has not been assigned to a complex handle system but it has been all included in the motorized door lock. It is relevant to take this into account in the evaluation of the aesthetics result and for the overall cost of the locking system.

Features of the motorized door lock:

- a) can be installed horizontally and vertically;
- b) the shanks and bit system facilitate a correct and long lasting centering of the door also recovering play which can manifest in time due to the wear of the hinge components;
- c) allows for the monitoring the state of the door position with electronic/electromechanical control by means of two switches:
 - switch for door in closed state
 - switch per door in locked state

1) Closing shank - Shank



Technical description

A Structure

Compact structure in aluminum alloy with operating temperature < T150°C.

B Gear Motor

Gear motor operating temperature from -20°C/60°C

Disturbance suppressor with manifold VDR.

Voltage: 12 / 24V.

Current absorption: < 70mA - <140mA

Current absorption with load: 340mA - 680mA.

RPM: 65rpm.

Maximum torque: 60Ncm

Data referred to ambient temperature

C Micro switches

Operating temperature from T125°C.

Approvals: IMQ - VDE - UL - CSA.

Electrical data: = 100 mA / 230 VAC.

D Mechanical data

Screw actuator on rolling ball bearings

Total travel of the screw actuator 11 mm

Ball bearings: n 3 - ø8 mm - mat100Cr6

Latching spring integrated into the actuator.

Auto centering closing shank on ball washer.

Elastic bracket for the operation of the shank

Time cycle: 10 sec. opening - 10 sec. closing

Max. force in latching close: 1800N

Max. force in locking: 8400N

D Reliability

30.000 operation cycles

F Emergency release system

Emergency release system by manual rotation of the command lead screw.

G Compatibility & interchangeability with different electronic controls

The **METEOR** door lock is designed and realized to be used on centrifuges and related professional appliances using existing electric and electronic components.

METEOR



METEOR sas
Via S.Anna, 3
I-31010 MARENO DI PIAVE (TV)
Phone +39.0438.4939
Fax +39.0438.493929
info@meteoritaly.com
www.meteoritaly.com
Part.IVA 04255770267