

# SIO SECURITY SOLUTIONS

Hydraulic Bollards, Gearmotors, Boom and Spike Barriers



# SIO VASUNDDHARA International Private Limited

People Customers Growth

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## SIO Hydraulic Bollards.

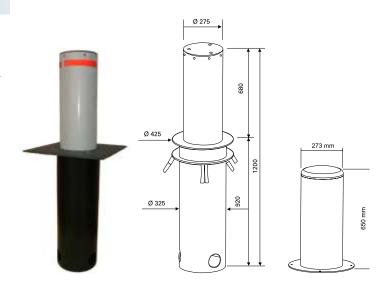
SIO Hydro and SIO Fix are hydraulic bollards installed for protection in spaces open for public access, such as transit and parking areas.

FREQUENCY OF USE



#### PROPERTIES:

- Bollard with hydraulic movement for maximum silence and longer life.
- Compact version with incorporated hydraulic device for easy installation.
- Easy release system with personalized key.
- With lighting and sonorous system.
- External control unit for SIO Hydro
- Foundation box
- 5 mm thickness (Stainless Steel cylinder also available on request)
- Electro-valve for automatic descent in case of power failure (optional)



#### **SPECIFICATIONS:**

#### HYDRAULIC UNIT

Hydraulic pump capacity

Average operation pressure

Maximum pressure adjustment

Operation temperature

Hydraulic oil

Protection class

4 I/min

2.2 MPA (22 bar)

4.5 MPA (45 bar)

-20°C + 55°C

SIO

Ip55

**ELECTRONIC MOTOR** 

 Power supply
 230V - 50 Hz
 30%

 Motor current
 1.65 A
 30%

 Motor power
 330 W
 30%

 Capacitor
 12.5 mF
 30%

 Rotation speed
 2800 rmp
 30%

#### HYDRAULIC PISTON

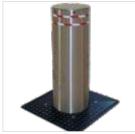
Exit time of the rod 6 sec. 720 mm Rod effective stroke Rod diameter 16 mm Piston diameter 30 mm Max traction force during rod exit 275 kg 147 kg Max traction force during rod re-enter Power supply obstruction light (LED) 24 V Shock resistance 9.000 Joule 120.000 Joule Crashing resistance



siO FIX code: 12500010 680 x 275 mm With support base Pcs for Pallets: 8



SIO HYDRO code: 12500005 Complete with lights Pcs for Pallets: 4



SIO HYDRO INOX code: 12500006

Complete with lights Pcs for Pallets: 4

#### MOUNTING ACCESSORIES



**SIO WLIGHT** with red/green lights



SIO ZK Foundation with plate rag bolts



RAL Supplement RAL (grey anthracite)



SIO CARBULL Vehicle manhole cover (550 x 550 mm)



SIO BOX
Foundation form and rag bolts (1 m)

### SIO Operators for Sliding Gates.

**SIO MERCURY** Gearmotor for Residential (230V version) or Semi-Intensive use (24V version) for sliding gates with maximum wight of 800 Kg. Available versions - 400 Kg, 600 Kg, 800 Kg.



#### **PROPERTIES:**

- Refined design, compact and easy to install
- Die-cast aluminium body with external housing & innovative design
- Optional batteries kit 24 V version.
- Simple and quick installation.
- Electronic anti-crushing clutch.
- Mechanical or magnetic limit switch (MAG version)
- Adjustable slowdown in opening and closing
- Emergency batteries and solar panel kit for recharge can be added.
- LED light application on all models possible.
- Optional external release system with stainless steel cable and safety box







LED light application on all models possible (optional)

Release system through robust nylon lever (optional metal lock)

Code	Name	Max. Gate Weight (kg)	Max. leaf length	Max. Cycles/ Hour	PCS for Pallet
11304000	SIO MERCURY 400	400	4 m	20	30
11304005	SIO MERCURY 400 24V	400	4 m	30	30
11304050	SIO MERCURY 400 E*	400	4 m	20	30
11304100	SIO MERCURY 600	600	6 m	20	30
11304105	SIO MERCURY 600 24V	600	6 m	30	30
11304205	SIO MERCURY 800	800	6 m	20	30
11304210	SIO MERCURY 800 24V	800	6 m	30	30
11304215	SIO MERCURY 800 E*	800	6 m	20	30

### SIO SATURN Gearmotor for Condominium Sliding Gates. Available in 1000 OIL / 1500 24V OIL / 2000 OIL

#### PROPERTIES:

- Solid die-cast aluminium body.
- All SIO SATURN Oil gears are oil lubricated for longer life.
- High quality mechanical or inductive limit switches.
- Release system with robust aluminium lever with lock in case of power cut.
- Optional external release with metal box.
- Optional emergency batteries (only in 1500 24V variant).
- Cataphoresis treated base.
- Optional external release system with stainless steel cable and safety box









In option release with

Oil lubrication of the gears for max. duration

Mechanical twin-disc



Code	Name	Max. Gate Weight (kg)	Max. leaf length	Max. Cycles/ Hour	PCS for Pallet
12400115	SIO SATURN 1000 E*	1000	10 m	20	25
12400120	SIO SATURN 1000	1000	10 m	20	25
12400100	SIO SATURN 1000 OIL	1000	10 m	25	25
12400105	SIO SATURN 1000 OIL	1000	10 m	25	25
12400026	SIO SATURN 1500 OIL 24V	1500	10 m	40	25
12400025	SIO SATURN 1500 OIL 24V	1500	10 m	40	25
12400040	SIO SATURN 2000 OIL	2000	10 m	25	25
12400045	SIO SATURN 2000 OIL	2000	10 m	25	25

 ${\color{red}SIO~BOXER}~~(1000~OIL/~2000~OIL)~Gearmotor~in~Oil~bath~for~Sliding~Gates~for~Condominium~or~Intensive~Use.}$ 

#### PROPERTIES:

- Solid die-cast aluminium body.
- All SIO BOXER with electric motor and gears in Oil lubrication for longer life.
- High quality mechanical or inductive limit switches.
- Release system lever and lock in case of power failure.
- Optional external release with metal box.
- Standard mechanical twin-disc clutch in oil bath on all models.
- Cataphoresis treated aluminium base.
- Standard encoder to comply with the rules.
- Extra base painting on request.
- Optional external release system with stainless steel cable and safety box











Release with aluminium

aears in oil lubrication

Code	Name	Max. Gate Weight (kg)	Max. leaf length	Max. Cycles/ Hour	PCS for Pallet
12405000	SIO BOXER 1000	1000	10 m	35	30
12405005	SIO BOXER 1000	1000	10 m	35	30
12405020	SIO BOXER 1000	1000	10 m	35	30
12405205	SIO BOXER 2000	2000	10 m	35	30
12715255	SIO BOXER 2000	2000	10 m	35	30

### SIO Boom Barrier.

# 24V ELECTRO-MECHANICAL BARRIER FOR BOOMS UP TO 6M

- 24V barrier for booms up to 6m and 4-6 sec opening time
- 24V motor with 110V or 220V input
- Painted casing
- Control unit UNIT 1 24V DG with display

#### **TECHNICAL SPECIFICATIONS**

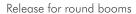
Motor power: 24V DC

Opening time: 4-6 sec. (up to 6m)

Max boom length: up to 6m
Operating Temperature: -20°C





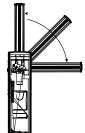




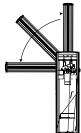
Manual release with lock



Image of the Interior



**RIGHT** 



LEF

#### 24V ELECTRO-MECHANICAL BARRIER

Code	Name	Motor Input Voltage	Description
11320505L-1	B 500 BL 24V	24V DC - 115V AC	24V BARRIER LEFT for boom up to max 6m. 4-6 sec. opening time.
11320505R-1	B 500 BR 24V	24V DC - 115V AC	24V BARRIER RIGHT for boom up to max 6m. 4-6 sec. opening time.
11320506L-1	B 500 BL 24V	24V DC - 230V AC	24V BARRIER LEFT for boom up to max 6m. 4-6 sec. opening time.
11320506R-1	B 500 BL 24V	24V DC - 230V AC	24V BARRIER RIGHT for boom up to max 6m. 4-6 sec. opening time.

#### BOOMS AND SPRING COMBINATIONS

Code	Description
11902065-1	BOLD - 4M KIT round boom 4.0 m+, n.1 spring Ø5mm + n.1 spring Ø4mm
11902070-1	BOLD - 5M KIT round boom 5.0 m+, n.1 spring Ø6mm
11902075-1	BOLD - 6M KIT round boom 6.0 m+, n.1 spring Ø5mm + n.1 spring Ø6mm

### SIO Spike Barrier.

Spike barriers are designed especially for entrance points to prevent force entry of vehicle. It prevents the entry from one direction only. Electrically operated Spike Barrier (Flat Type Spike) of 3/4/5/6 can be integrated with boom barrier of 3,4,5,6 m boom length with control units in common cabinet.



#### **FEATURES:**

- Provides noise free smooth operation because of hydraulic operated mechanism.
- Available in Length of 3/4/5/6 m.
- Options are available with Flat top surface and curved top surface (hump type)
- 100% duty cycle
- Emergency lowering or up possible in case of threat or fire
- Microprocessor based control electronics with display for programming different operation logic.
- Can be integrated with any third party access control.
- Electronic force can be adjusted 0-50 levels.
- Movable nails are made of hard steel with hole in its core to deflate the tyre thus avoiding any explosion due to tyre burst.
- 50/100 ton load bearing capacity
- Manual operations in case of Power failure.

#### SPECIFICATIONS:

Model SIO 300H

Material Galvanized Steel

Type HUMP

Length 3, 4, 5, 6 m

Opening Closing Time 3-4 sec for 5m

Spike Height 150 mm
Axle Height 500 mm

Power Supply 230V 50Hz

Power Consumption 220W

Current Consumption 1 A

Maximum Hydraulic Pressure 100 Bar

Accessories max. Current 500 mA

Spike material AISI 304

Blocking angle 600, 120mm minimum

(customizable)

Load Capacity 100 Ton

Environment Temperature -20°C to +55°C,

95% non-condensing humidity

#### **OPTIONS AVAILABLE:**

- Emergency Button with Lock down
- Traffic Light
- Remote Controller

- Pair of Photocell Safety Beam
- Access Control System



### SIO VASUNDDHARA INTERNATIONAL PVT. LTD.

Founded with the vision to work with fairness, honesty and courtesy towards all internal and external stakeholders to achieve the company's objectives, Sio Vasunddhara International has serviced such prestigious names as ABB, DLF, L&T, PVR, TAJ hotels and resorts, Unitech, Fortis, Airtel, bata, The Oberoi, HP, Raheja developers and many others.