



In-ground Rising Bollard

MRB 200

Technical Data:

		MRB 200
Impact Force *		*
Hydraulic Power Unit	KW	1.5
Voltage Single Phase	V	240
Frequency	HZ	50
Current	A	5
Protection	IP	65
Bollard Height	mm	800
Bollard Diameter	mm	170
Rising Speed	mm/sec	40-300
Retracting Speed	mm/sec	40-300
Lifting Force	max.kg	200
Weight	kg	230
Controller	type	PLC
Duty Cycle	%	100
Operation after power failure		Option

* Depending on impact height up to 2000kg at 50km/H

Description

The MRB series of In-ground Rising Bollards are designed to secure areas from unauthorized traffic. The bollards are used where fast operating speeds and high usage is of importance.

Technology

The MRB consists of a galvanized steel bollard housed in a galvanized steel Tube installed beneath the road surface. The bollard is activated by means of an Hydraulic cylinder. The top of the bollard is an attractive casting that will blend into the road surface as an inspection or drain cover.

The MRB contains a unique maintenance release mechanism should there ever be a requirement to remove the hydraulic cylinder from the housing. This mechanism is constructed entirely from non corrosive materials, and never requires lubrication.

The MRB is manufactured from materials that will withstand the harshest of environments and because of the non metal contact the bollard is suitable to install in flammable and chemical areas. There are several options available on power fail in standard configuration, the bollard will lower to allow for access.

Installation.

The installation of the bollard requires to bore a hole of 500mm diameter with a depth of 1400mm. A 100 mm conduit pipe must be laid from the bollard to the power unit control housing for the hydraulic hoses. We require a minimum depth of 200 mm below the road surface for the conduit. The Power unit can be installed up to 50 meter distance from the bollard. If installations require further distance we recommend consultation with our technical department.

Controller. MUB, or PLC

This controllers are also used for our traffic barriers and have many automatic and manual operation modes. (See Info MF5165/98 E).

This controller is normally installed together with the power unit under a lockable steel cover. Triac switching of the solenoids provides maintenanc free service. Input terminals for operation and safety devices are standard. The controller will interface with a variety of remote control devices, security access systems and key card readers.

Accessories

Warning lights
Warning signs
inductive loop detectors
PE Beams and radio controls.
UPS (Uninteruptable Power Supply)

Power Failure Options

- * UPS (Uninterruptable Power supply)
- * Accumulator.
- * Manual control (Hand Pump)



Safety

The following safety points should be observed with regard to the installation and operation of the Magnetic Rising Bollard.

1. Opening and closing operations must be observed! Installation of the operating elements outside the field of vision is not permitted; a visual link must exist between the Rising Bollard and the control device.
2. Safety devices, such as PE beams, and Inductive loop detectors are available and strongly recommended. In areas with pedestrians access, safety devices are a must.
3. The electrical installation and commissioning must be done from a authorised Electrician.
4. A main switch which disconnects all poles is to be provided.

Important:

The Power unit contains Bio-Degradable Hydraulic Oil to protect the environment in case of an accident.

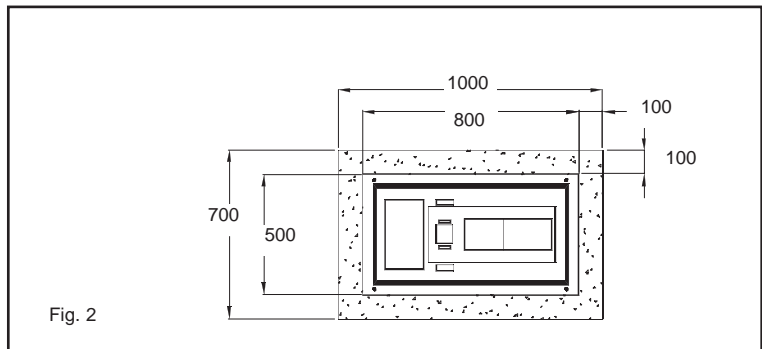
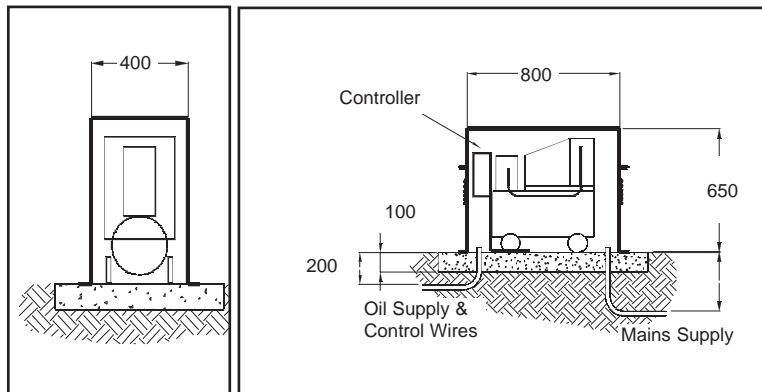
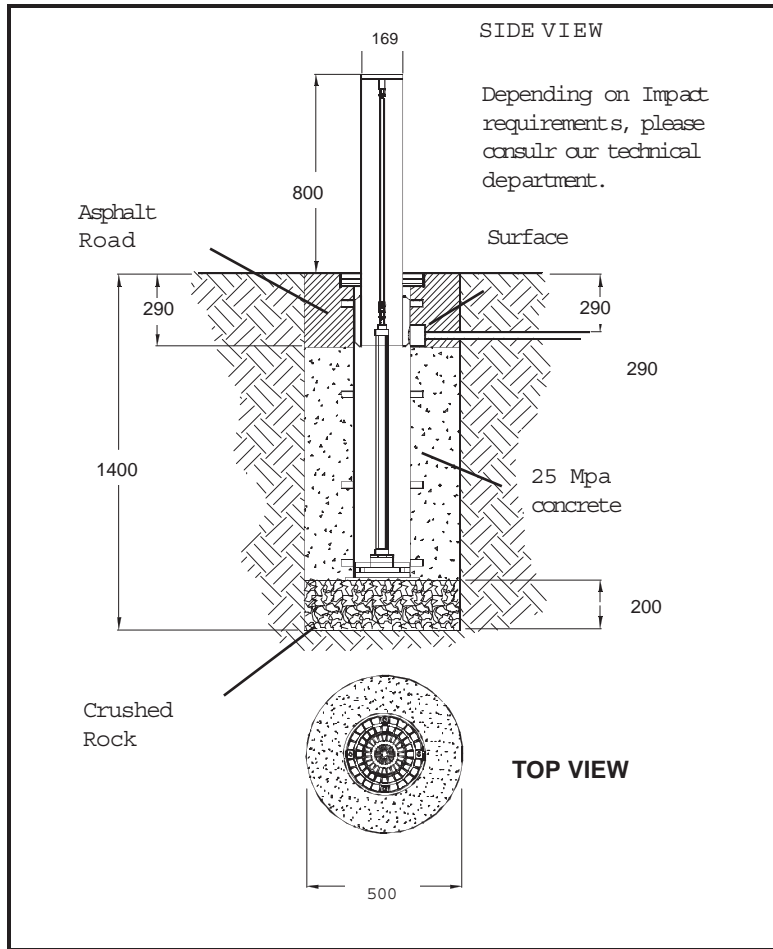


Fig. 2