



RAB800 Retractable Hydraulic Bollards

General Description

Optima RAB-800 bollards are designed for high security vehicle entrances, military, industrial, governmental and commercial buildings or streets which are closed to vehicle traffic between certain hours of the day. They can be installed as a single bollard as well as in group of bollards.

STEEL CONSTRUCTION

Lifting section of the bollard is manufactured from S235JR Steel (St37) steel tube. Outer surface of the steel tube is cladded by AISI 316 stainless steel. Roadway surface area is covered by a heavy duty plate. The bollard and foundation tube is mounted into a reinforced concrete foundation. Bollard is designed to withstand 40 tons of axle load when lowered. All the parts are hot dip galvanized. In addition, hydraulic power unit cabinet is electrostatic powder coated.

HYDRAULIC POWER UNIT AND CONTROL ELECTRONICS

All the hydraulic components are tested at 250 bars although normal operating pressure is around 50-70 bars. Manuel hand pump is standard in HRB series, therefore in case of power failure it is possible to raise and lower the bollards by manual hand pump. Coolers or heaters are can be integrated to the hydraulic power unit in extreme weather conditions (optional). Control electronics utilized in retractable hydraulic bollard is by means of microprocessor. AC Electric motor is driven by a contactor and protected by a thermic breaker. There is a fuse for every component in the system. All the cables running in the system are colour coded and numbered to ease tracking. A LED strip light on the top of the bollards in charge during operation.

ENVIRONMENTAL CONDITIONS AND POWER REQUIREMENT

Between -20°C and +65°C, %95 non condensing humidity, Mono phase 220-240 VAC 50/60Hz

OPTIONAL ACCESSORIES

1. Red and green traffic lights (200mm dia., power LED) with steel mounting pole.
2. Radio control (RF) receiver, transmitter and antenna
3. Safety photocells with mounting stand and casing.
4. Inductive vehicle loop detector
5. Submersible Drainage Pump
6. Access Card Reader System
7. Hydraulic accumulator for emergency fast facility and in case of power failure.
8. Uninterrupted Power Supply (UPS)
9. DC motor,pump and dry batteries in case of power failure
10. Different color options.
11. Oil Cooler Fan
12. Top flange (Hot dip galvanized, 20 mm anti-skid plate)

