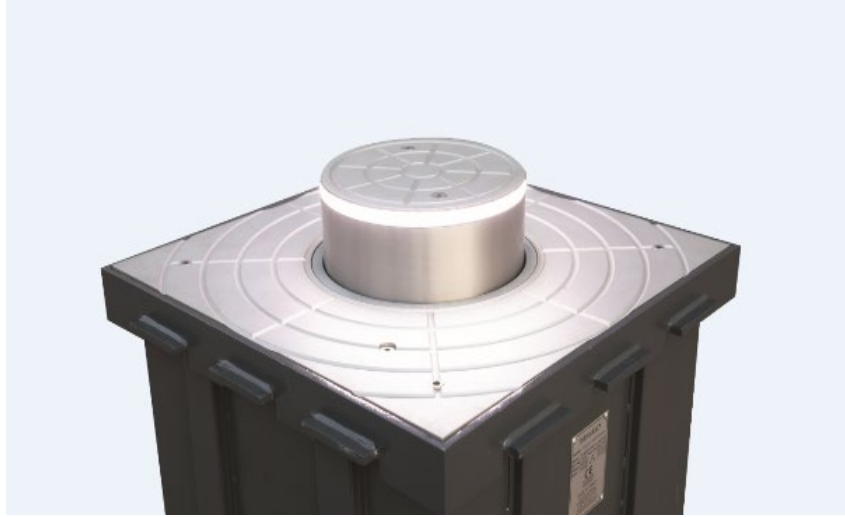


TPB-IN 1080

ROAD BOLLARD (INTERNAL HYDRAULIC)



GENERAL INFORMATION

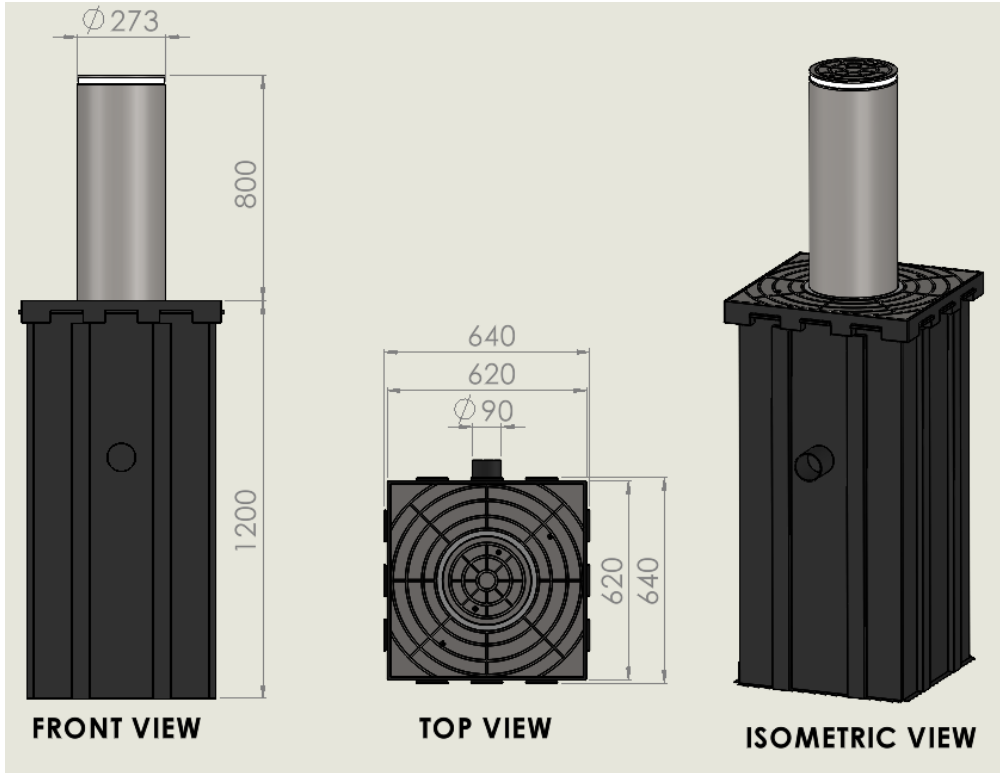
TPB-IN series hydraulic road bollards are the most preferred vehicle access control solutions to provide a high level of security in areas where frequent and heavy duty use is required. The TPB-IN series is specially designed to provide high resistance to impact forces. Thanks to its powerful internal hydraulic power pack design, it is an ideal choice for high-frequency operations. It is achieving a high level of security while maintaining an aesthetic look. Hydraulic bollards are widely used at high-security access applications and regulation of city traffic at entrance-exit points, military areas, industrial, governmental buildings, and streets that are closed to traffic in certain hours of the day.

During a power failure, it is designed to be controlled manually. Thanks to PLC controlled electronics, the raising-lowering operation can be achieved by card readers, remote control, on/off key switches, biometric readers, etc. Safety accessories like photocells, loop detectors, and other optional accessories like traffic lights, flashlights can be integrated into the system.

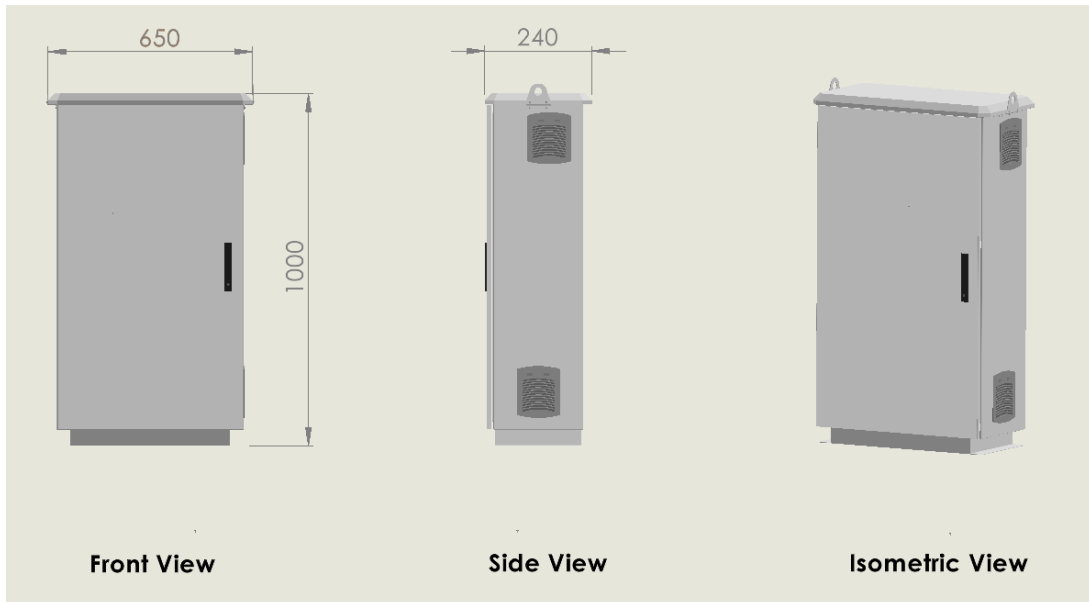
MAIN CHARACTERISTICS

- Fast operation,
- Internal hydraulic power pack design provides maximum reliability,
- Heavy gauge cylinder, cover and underground case,
- PLC and best quality electronics that provide synchronized operations of grouped bollards with a single control cabinet,
- Thanks to modular case design, easy to installation and maintenance,
- Smooth and silent operation with internal hydraulic system,
- Suitable for intense usages at high frequency accessing, 10000 + movements per day,
- In case of a power failure, it is possible to control manually,
- Optionally adjustable operation times and emergency fast operation mode,
- Aesthetic design.

TECHNICAL SPECIFICATIONS



CONTROL CABINET PHYSICAL CHARACTERISTICS



CABINET: 2 mm thick DKP sheet, anti-corrosion electrostatic oven painted, continuous ventilation system. The dimensions of the cabinet are adjusted for a maximum of 6 bollards.

PHYSICAL CHARACTERISTICS

CYLINDER DIAMETER	273 mm
OBSTACLE HEIGHT	800 mm standard
CYLINDER THICKNESS	10+2 mm, 10 mm ST 52 steel core which is finished by 2 mm stainless steel (304 grade standard)
OUTER CASE DIMENSIONS	620 x 620 x 1200 mm (W x L x H)
VISIBILITY ENHANCEMENT	Optional LED Cover

OPERATIONAL CHARACTERISTICS

DRIVE	Internally Incorporated Single Acting Hydraulic
DRIVE POWER	15 Bar Average, 50 Bar Maximum
HYDRAULIC OIL	Atf 220 (standard)
LIFTING/LOWERING TIME	3 - 4 seconds of raising time depends on obstacle height
OPERATION FREQUENCY	10000 + movements per day
MANUAL OPERATION	Easy releasing system with personalized key
POSITION DETECTION	Proximity switch (Weather proof) (Standard)
OPERATION CONTROL	RF Receiver, RF Transmitter, RF Antenna, RFID-Proximity Card Reader (Optional)
EMERGENCY FAST OPERATION	1.2 second
EASE OF SERVICE	Easy intervention without removing the bollard for fault detection and synchronization adjustments

ELECTRICAL CHARACTERISTICS

ELECTRICAL MOTOR	220 VAC, 50-60 Hz, 750 W
CONTROL PANEL	PLC controlled smart unit for simultaneous operation of grouped barriers

RESISTANCE CHARACTERISTICS

ENVIRONMENTAL CONDITIONS	-15 °C / +65 °C
PROTECTION CLASS	IP 67
IMPACT RESISTANCE	K8 Equivalent

EQUIPMENT AND ACCESSORIES

SAFETY EQUIPMENTS	Emergency stop buttons (standard), Safety Photocells, Loop Sensors (Optional)
OPTIONAL ACCESSORIES	Button control interface, Traffic lights, Flasher Lamp, Drainage pump, RF Receiver, RF Transmitter, RF Antenna

CERTIFICATIONS AND WARRANTY

CERTIFICATIONS	ISO 9001:2015, ISO 14001:2015, OHSAS 18001, CE, TSE
WARRANTY	2 years