

TPB-CT 1090

CRASH TEST ROAD BOLLARD



GENERAL INFORMATION

TPB-CT series crash test hydraulic road bollards are suitable solutions in areas where frequent and heavy duty usage is necessary to provide high level of security. They provide a solid protection with aesthetic appearances thanks to their modern design.

TPB-CT crash test series hydraulic road bollards are designed for the areas that have high-security requirements and to meet high level of ASTM M50 / IWA14-1 / PAS68 impact resistance. TPB-CT series road bollards have already proven their durability and stopping power by computer aided element analysis tests. The product is pending to be tested against IWA14-1:2013 standards and expecting to be awarded IWA14-1:2013, N2A level certification.

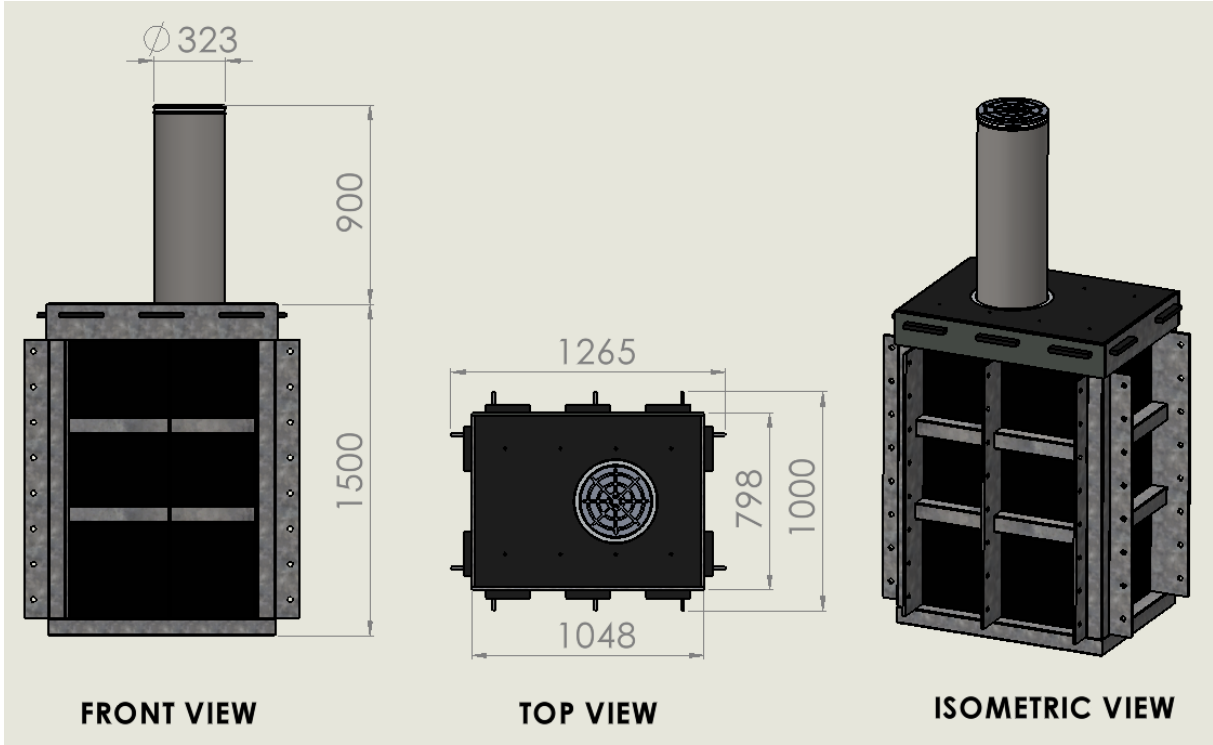
During a power failure, it is designed to be controlled manually. Thanks to PLC controlled electronics, the raising-lowering operation can be achieved by card readers, remote control, on/off key switches, biometric readers etc. Safety accessories like photocells, loop detectors and other optional accessories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

Hydraulic bollards are widely used at high security access applications and regulation of city traffic at entrance-exit points, military areas, industrial, governmental buildings, parking lots and streets which are closed to traffic in certain hours of the day.

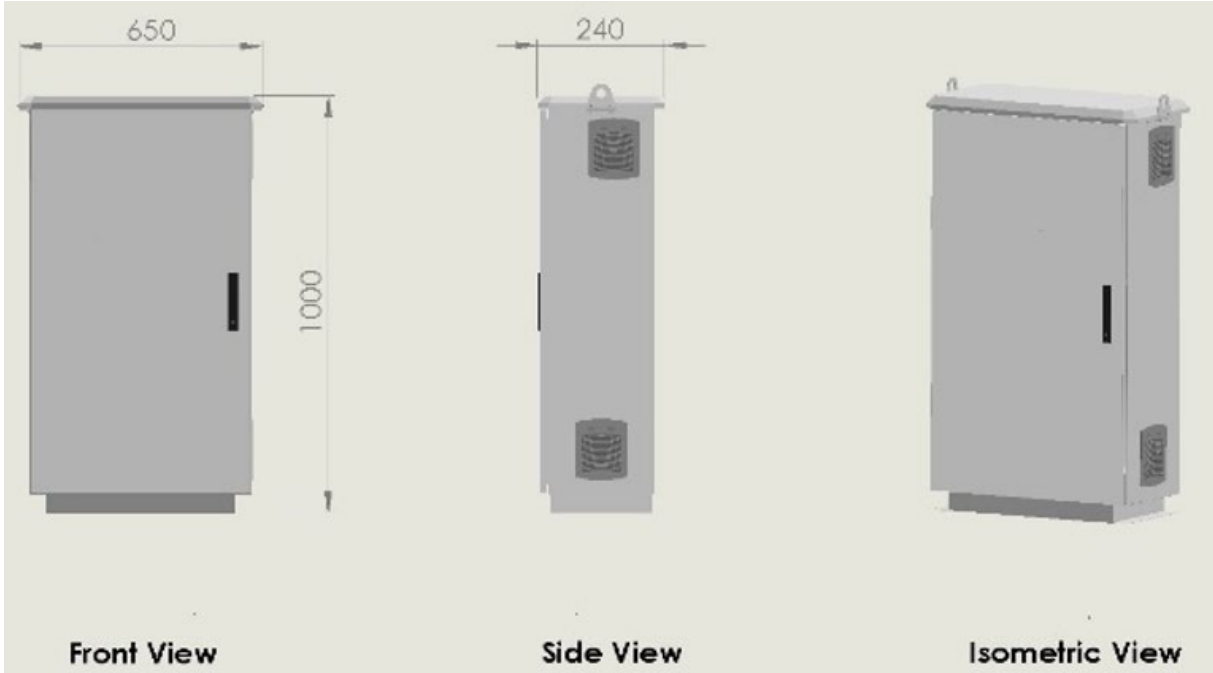
MAIN CHARACTERISTICS

- Hydraulic power pack design provides maximum reliability,
- Thanks to the internal hydraulics and modular case design, it provides ease of maintenance and installation combined with smooth and silent operation,
- TPB-CT1090 Hydraulic rising bollards are being tested to prove that they have a high impact resistance to meet K12 level of IWA14-1:2013 standards and withstand an impact force of 7,500 kg at 80 km/h,
- Synchronizing bollards grouped with a single control cabinet thanks to PLC control,
- Suitable for intense usages at high frequency accessing, 10000 + movements per day,
- Manual control in case of power failure,
- 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.

CONTROL CABINET DIMENSIONS:

| FEATURE | WIDTH | LENGTH | HEIGHT |
|----------|-------|--------|--------|
| STANDARD | 650 | 240 | 1000 |

PHYSICAL CHARACTERISTICS

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|------------------------|---|
| CYLINDER DIAMETER | 323 mm |
| OBSTACLE HEIGHT | 900 mm |
| CYLINDER THICKNESS | Classified |
| MATERIAL | 3 mm stainless steel coating (304 quality standard) |
| OUTER CASE DIMENSIONS | 1048 x 798 x 1500 mm (W x L x H) |
| VISIBILITY ENHANCEMENT | Optional LED stripe |

OPERATIONAL CHARACTERISTICS

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|--------------------------|--|
| DRIVE | Hydraulic |
| HYDRAULIC OIL | Mobil Atf 220 (standard) |
| DRIVE POWER | 50 Bar Average, 80 Bar Maximum |
| RISING/LOWERING TIME | 7 - 8 seconds (standard) |
| OPERATION FREQUENCY | 10000 + movements per day |
| EMERGENCY FAST OPERATION | 1,5 seconds (Optional with Emergency Fast Operation) |
| MANUAL OPERATION | Easy releasing system with personalized key |
| POSITION DETECTION | Proximity sensor (weather proof) (Standard) |
| EASE OF MAINTENANCE | No need to take the case out of ground for any maintenance operation |

ELECTRICAL CHARACTERISTICS

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| ELECTRICAL MOTOR | 220 VAC, 50-60 Hz, 1.5 kW |
| CONTROL PANEL | PLC controlled smart unit for simultaneous operation of grouped barriers |

RESISTANCE CHARACTERISTICS

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|--------------------------|--|
| IMPACT RESISTANCE | 7500 kg at 80 km/h (IWA14-1:2013, N2A Certification) |
| ENVIRONMENTAL CONDITIONS | -30 °C / +65 °C |
| PROTECTION CLASS | IP 67 |

EQUIPMENT AND ACCESSORIES

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|----------------------|---|
| SAFETY EQUIPMENT | Emergency stop button (standard), Photocell, Loop sensor (optional) |
| STANDARD ACCESSORIES | Control Keyboard (on the Control Panel) |
| OPTIONAL ACCESSORIES | Button control interface, Traffic lights, Flasher Lamp, Drain pump, RF Receiver, RF Transmitter, RF Antenna |

CERTIFICATIONS AND WARRANTY

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