

## BULL BOLLARD

HYDRAULIC BOLLARD OPERATOR  
FOR INDUSTRIAL USE WITH  
INTENSIVE OPENING CYCLES.



### Strong, reliable, safe, silent and secure!

- Stand-alone Hydraulically powered system to provide maximum noise reduction and long term reliability.
- In-built hydraulic pump, piston, three stabilising support shafts and industrial sealed limits switches, ensure consistent operation and ease of installation.
- 1150 mm plastic foundation sleeve and 550 mm checker plate manhole cover supplied as standard.
- LED illumination built into the bollard for night time visibility or to indicate bollard movement.
- 10 m of pre-wired cabling included, additional lengths available on request.
- Super Bull anti ram-raid version with 12mm thick outer casing, offering greater impact resistance.
- Internal non-return lock valves provide security against unauthorised access.
- Reliable manual release system to provide emergency operation in case of power failure.
- Dark grey paint finish available as an optional extra.
- Traffic lights and fixed bollards available.



Suitable deterrent for  
all sizes of vehicle

Fully adjustable to  
ensure that the bollard  
is flush to the ground  
eliminating trip points



Protection  
against Ram  
raids

**When quality matters make sure it's SEA  
the engineers' choice!**

**SEA (UK) Limited**

*Midlands Head Office:-*

Unit 2 Ardath Road, Kings Norton,  
Birmingham, West Midlands, B38 9PJ  
Tel: 0121 433 3348 / Fax: 0121 433 5695

*London Trade Counter:-*

1-4 Grange Mews,  
Rear of 28 The Grangeway,  
LONDON N21 2HG  
Tel: 020 8360 8022 / Fax: 020 8364 2516

[sales@seauktd.co.uk](mailto:sales@seauktd.co.uk) / [www.seauktd.co.uk](http://www.seauktd.co.uk)

# BULL

## Specifications

## BULL RISING BOLLARD

Hydraulic pump capacity  
 Standard operating pressure  
 Maximum pressure  
 Operating temperature  
 Hydraulic oil  
 Central protection degree  
 Rod lowering time  
 Rod raising time  
 Rod stroke length  
 Piston rod diameter  
 Max. traction force rod exit  
 Max. traction force rod re-entry  
 Current supply overall lights (led)  
 Current supply  
 Absorbed current  
 Absorbed power  
 Capacitor  
 Motor Rotation speed  
 Weight of complete system

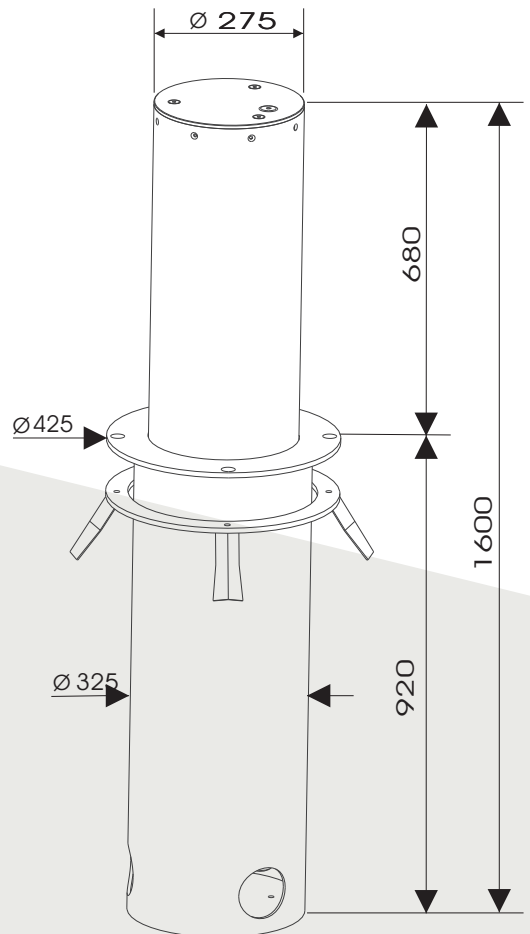
4 L/min  
 2.2 MPA(22 bar)  
 4.5 MPA(35 bar)  
 -20°C +55°C  
 SEA 0X29  
 IP 55  
 6 sec.  
 8 sec.  
 720 mm  
 16 mm  
 275 Kg  
 147 Kg  
 24V  
 230V- 50 Hz  
 2 A  
 330 W  
 12.5mF  
 2800 rpm  
 156 kg

## CONTROL BOARDS

### Technical Specifications

#### Gate 1 (for 1 Bollards)

- Management of a 230 Vac motor with or without limit switch.
- Automatic logic (4 modes), semiautomatic, step by step logics.
- Electronic slow down in opening and closing.
- Motor run time and pause open regulation.
- Self-learning operating time for gates with limit switches.
- Self-test on photocells.
- Self-diagnostic system.
- Encoder management. (Safety Gate for swing gates)
- Diagnostic Leds on all outputs/inputs.
- Extractable connectors for ease of wiring.
- Integrated receiver compatible with radio transmitters SMART, HEADROLL and HEAD ECOPY series (800 users)
- Fully compatible with all SEA accessories.
- Compatible with most manufactures of audio and video intercom equipment.
- Digital code pads.
- Card reader systems, stand alone and computer linked.
- Time clocks and hold open switches.
- Induction loop free entry, free exit and safety.
- Photocell free entry, free exit and safety.
- Patented rubber mechanical safety edges.
- Vehicle recognition systems.
- Biometric identification systems.



**SUPER BULL:**  
 Heavy duty automatic bollard, with 12mm thick casing.



**SOFT:**  
 New stainless steel fixed bollard for parking and public areas.

#### Accessories.

Loop detectors / Photocells / Key pads / Card readers / Transmitters & receivers/ Telephone entry systems / Audio and video intercom systems, wireless and cabled.  
 Vehicle recognition systems / Biometric recognition systems / Patented rubber mechanical safety edge / Time clocks / Hold open switches.