



## SWG Series Turnstiles



### General Description

SWG-200 Swing Gate (with electro-magnetic lock) is used to control the flow of pedestrian traffic. It is designed for one-way 90° swing and is extensively used in retail stores, commercial facilities etc. to enable handicapped access to a secure area. The gate is operated through an electro-magnetic lock with 35 kg holding force which is mounted on a fixed post. The gate and lock posts are securely mounted to the floor surface.

The Swing Gate is generally used with an access control system (i.e. in conjunction with waist-high access control turnstiles) and is normally locked. Therefore, both access into/out of the secure area is restricted and universal stop symbols are permanently attached to the gate arm. In case of emergency electro-magnetic locking mechanism will release the swing gate arm, then torsion spring (placed in the gate post) will cause gate arm to rotate 90° to enable maximum flow. So this breakaway feature will provide an exit path in case of emergency.

### CONSTRUCTION

Swing Gate is manufactured from AISI 304 Quality Stainless Steel. All steel parts have 1,5 mm of wall thickness. The gate post has a diameter of Q60 mm and the gate arm has a diameter of Q32 mm. Lock post (fixed pivot) has 60x60 mm square cross-section. Gate and lock posts are securely fixed on the floor surface by the help of anchors. Swing Gate arm may be manufactured in different sizes depending on customer needs.

### MECHANISM AND LOCKING ELEMENTS

Swing Gate is operated through an electro-magnetic lock with 35 kg holding force. The main part of the electro-magnetic lock is mounted on the lock post and the other part is mounted on Swing Gate arm. A torsion spring is installed in gate post. When electro-magnetic lock releases the gate arm (in case of emergency) the torsion spring transmits a huge torque (saved during winding) which causes gate arm to rotate 90° quickly. Double ball bearing ensure the smooth and reliable rotation of the gate arm. These features make Swing Gate mechanism strong and trouble-free.

## INSTALLATION

1. Locate the Swing Gate in desired position in accordance with manufacturer's instructions and architectural drawings.
2. Mark flange hole locations.
3. Remove gate and drill holes. Clean the dust out of the holes.
4. Place gate properly over anchors. Tighten the nuts. Do same processes for other post(s).
5. Perform all wiring in accordance with manufacturer's instructions.
6. Check the post(s) position and make necessary adjustments.

## ENVIRONMENTAL CONDITIONS AND POWER REQUIREMENT

Between -20°C and +70°C, non-condensing humidity.

## TYPE DESCRIPTION

SWG 200 Stainless Steel, gate is spring loaded in closed position with the help of electromagnetic door holder, therefore gate opens automatically when door holder is turned off, opens one direction  
SWG 200 WOM Stainless Steel, manually opened, return by spring, opens one direction

