



# FAAC J275 HA BOLLARD

## PROCUREMENT SPECIFICATION



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Hydraulic Automatic retractable automatic (Hydraulic Automatic) J275 HA for intensive usage.

### **APPLICATIONS:**

Pedestrian areas delimitation, reserved parking areas for offices, residential areas, commercial or industrial sites, hospitals, public buildings, campsites, holiday and sport resorts, paths with intensive vehicles flow.

### **PRODUCT FEATURES:**

The bollard employs a cylinder with height 600mm or 800mm off ground, diameter 275mm, made of Fe 360 (thickness 7mm), with surface treatment in cataphoresis and polyester powder painted, or of stainless steel AISI 316 (thickness 6mm), with satin finishing.

The support structure is in reinforced steel and the bollard and the support structure drop into a pit unit that sits in the foundation.

All internal fixing frames for cables, sensors, etc., are made of stainless steel made, in order to avoid corrosion.

The protection rate, of junction box and internal connections must be IP56.

The bollard is supplied with a safety pressure switch to automatically command the cylinder movement inversion if the head finds an obstacle while rising

Bollard speed on normal duty:

Rising Time 5s (600mm) or 7s (800mm) / Lowering Time 2,8s (600mm) or 3,5s (800mm)

The above operation time must be kept constant on defined duty cycle.

The bollard allows a setup to operate with faster Lowering speed -1s (600mm) / 1,2s (800mm)- with no further modification required.

Cylinder above ground is visible on all environment conditions, having a 55mm high reflecting strip all around the cylinder itself, as well as LED lights that flash when bollard moves and stay permanently ON when upraised.

### **HYDRAULIC DRIVE UNIT-**

Hydraulic drive unit is integrated into the bollard structure and consists of a pump unit, powered by an electric motor (voltage 230AC) able to grant suitable operation.

In case of power failure while the bollard is upraised, the cylinder remains in position. A mechanical valve to unblock –with dedicated key- and lower manually the cylinder is accessible on the cylinder head, but protected by a security screw.

A further safety electro valve allows the cylinder automatic descent in case of power failure. The same electro valve can be set up to keep the cylinder upraised in case of power failure.

### **CONTROL BOARD:**

It's supplied with 230VAC voltage – 50/60Hz.

The control board is external and can manage up to 4 bollards.

It's Equipped with a built-in dual loop detector and includes programmable logic and provides all commands for normal operation.

To link the bollard and the control board, a 16+1 conductors -min 1,5mm section- cable shall be employed.

### **OPERATING TEMPERATURE AND WEATHER CONDITIONS:**

Bollard shall be fully operational within following conditions:

Operating temperature	-15 °C / +55 °C
Operating temperature with heater (accessory)	-25 °C / +55 °C

### **OPTIONS:**

The cylinder heights can be:

- 600mm off ground
- 800mm off ground

The cylinder finishing can be:

- Cathaphoresis and polyester powder painted Dark grey metallized
- Stainless steel satin finishing

### **ACCESSORIES:**

A Pit heater can be added, to enlarge the operation temperature range to extreme low temperatures (as below specified).

## TECHNICAL SPECIFICATIONS

J Series Model	J275 HA H600	J275 HA H600 INOX	J275 HA H800	J275 HA H800 INOX
Drive	Hydraulic unit	Hydraulic unit	Hydraulic unit	Hydraulic unit
Cylinder height from ground [mm]	600	600	800	800
Cylinder diameter [mm]	275	275	275	275
Cylinder material	Steel SJ235JR EN 10219 (7mm thick)	AISI 316 satin finishing (6mm thick)	Steel SJ235JR EN 10219 (7mm thick)	AISI 316 satin finishing (6mm thick)
Cylinder surface	Cataphoresis and polyester powder painted Dark grey metallized RAL 7021	Satin finishing	Cataphoresis and polyester powder painted Dark grey metallized RAL 7021	Satin finishing
Head	Aluminium painted case RAL 9006	Aluminium painted case RAL 9006	Aluminium painted case RAL 9006	Aluminium painted case RAL 9006
Rising time [s]	~5	~5	~7	~7
Lowering time [s]	~2,8	~2,8	~3,5	~3,5
Emergency automatic lowering	YES (excludible)	YES (excludible)	YES (excludible)	YES (excludible)
Emergency lowering time [s]	~1	~1	~1,2	~1,2
Safety switch	YES	YES	YES	YES
Emergency manual lowering	YES	YES	YES	YES
Power supply	230V ~ 50(60Hz)	230V ~ 50(60Hz)	230V ~ 50(60Hz)	230V ~ 50(60Hz)
Max power consumption [W]	220	220	220	220
Hydraulic unit protection Index	IP67	IP67	IP67	IP67
Suggested Usage	Intensive	Intensive	Intensive	Intensive
Reflective strip height [mm]	55	55	55	55
Reflective strip colour	Orange	Orange	Orange	Orange
Impact resistance [J]	38.000	67.000	38.000	67.000
Break in resistance [J]	128.000	207.000	128.000	207.000
Total weight [Kg]	167	167	195	195
Pit weight [Kg]	55	55	65	65
Bollard weight [Kg]	112	112	130	130
Operating temperature	-15 °C / +55 °C	-15 °C / +55 °C	-15 °C / +55 °C	-15 °C / +55 °C
Operating temperature with heater (accessory)	-25 °C / +55 °C	-25 °C / +55 °C	-25 °C / +55 °C	-25 °C / +55 °C
Underground product dimensions WxDxH [mm]	560 x 560 x 950	560 x 560 x 950	560 x 560 x 1.220	560 x 560 x 1.220
Required excavation dimensions WxDxH [mm]	1.000 x 1.000 x 1.250	1.000 x 1.000 x 1.250	1.000 x 1.000 x 1.540	1.000 x 1.000 x 1.540
Supply cable	16+1 conductors – min. section 1,5mm (not supplied)	16+1 conductors – min. section 1,5mm (not supplied)	16+1 conductors – min. section 1,5mm (not supplied)	16+1 conductors – min. section 1,5mm (not supplied)
Max cable length [m]	50	50	50	50