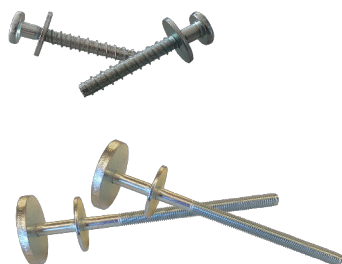




# CONNETTORE 20 e 38 IN ACCIAIO

## PRODUCT DESCRIPTION

Mechanical steel pin connector with electrolytic galvanising, upper circular washer, lower mobile guide washer for installation and threaded stem.



## PRODUCT APPLICATION

- Connection between existing structures and new waterproofing protective and/or confinement slabs (e.g. fibre-reinforced concrete)
- Anchoring to mortar supports or concrete castings

## ADVANTAGES

- Solid anchoring thanks to double disc
- Allows for the absence of reinforcement mesh in combination with thin fibre-reinforced mortars. In the presence of metal meshes, it does not require fixing to them
- Quick and easy application thanks to the installation guide disc

## PREPARATION AND APPLICATION Preparing the surfaces

Remove any surface roughness near the connector fixing point.

### Application

#### STEEL CONNECTOR 20

Mark the position on the installation surface for fixing the connectors based on the predefined calculation centre distance.

Make the hole with a drill and 12 mm drill bit, depth 65 mm, remove the resulting dust via aspiration or blowing compressed air into the hole.

Insert the steel connector into the hole, fixing it with BI FIX 300 chemical anchor (see relative technical data sheet).

Otherwise in case of a concrete support, it is possible to tighten the connector directly to it using an 8 mm bit and an electric impact screwdriver or with stroke end clutch.

#### STEEL CONNECTOR 38

Mark the position for fixing the connectors on the application surface according to the predefined calculation centre distance, setting up the electro-welded mesh (if provided) on the substrate as reference, so as to prevent the connector from coming into contact with it.

Make the hole with a drill and 12 mm drill bit, depth 153 mm, remove the resulting dust via aspiration or blowing compressed air into the hole.

Insert the steel connector into the hole, fixing it with BI FIX 300 chemical anchor (see relative technical data sheet).

In the presence of fibre mesh, provide for its insertion after laying the connectors.



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References available at [www.volteco.com](http://www.volteco.com)

## PACKAGING AND STORAGE

The steel connectors are sold individually.

## WARNINGS - IMPORTANT NOTES

Do not remove the connector in the seat during the setting of the chemical anchoring. Comply with the temperatures required by the chemical anchor to fix the connectors. In damp environments, avoid placing the electro-welded mesh in direct contact with the connectors to avoid corrosion due to galvanic current.

## PHYSICAL AND TECHNICAL SPECIFICATIONS

Specification	Connector 20 - Value	Connector 38 - Value
<i>Connector steel</i>	Carbon steel Electrolytic galvanising Threaded stem $\text{\Oint} = 8 \text{ mm}$ $\text{\Oest} = 10,5 \text{ mm}$  fyk = 640 MPa fuk = 800 Mpa	Carbon steel 8.8 Electrolytic galvanising Threaded stem Class M10 8.90 mm $\pm 0.2 \text{ mm}$ diameter smooth stem fyk = 640 MPa fuk = 800 Mpa
<i>Head washer steel</i>	Carbon steel Electrolytic galvanising Diameter 22 mm	Carbon steel DD11 according to EN 10111 Electrolytic galvanising Diameter 50 mm $\pm 0.5 \text{ mm}$ Thickness 6 mm $\pm 0.2 \text{ mm}$ fyk = 178.5 MPa fuk = 440.0 MPa
<i>Washer extrados distance</i>	20 mm	38 mm $\pm 0.5 \text{ mm}$
<i>Threaded stem length</i>	60 mm	117 mm
<i>Total stem length</i>	60 mm	147 mm $\pm 1 \text{ mm}$
<i>Total connector length</i>	80 mm	185 mm $\pm 1 \text{ mm}$
<i>Adjustment screw washer diameter</i>	30 mm	40 mm $\pm 0.2 \text{ mm}$
<i>Adjustment washer thickness</i>	2.7 mm	2.5 mm $\pm 0.2 \text{ mm}$
<i>Tensile strength of the bar (not threaded)</i>	25.3 kN	33.4 kN
<i>Shear project value</i>	9.66 kN	-
<i>Net volume of fixing resin (gap 1 mm)</i>	4.08 cm <sup>3</sup> /cad	7.52 cm <sup>3</sup> /cad
<i>Fixing resin consumption</i>	1 x 300 cc cartridge every 55 connectors approximately	1 x 300 cc cartridge every 25 connectors approximately

## SAFETY

Refer to the related Safety Data Sheet.

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## LEGAL NOTES

Note for buyer/installer:  
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by referring to [www.volteco.com](http://www.volteco.com).

The above clarifications extend to the pre-post-sales technical/commercial information of the commercial network.

## ANNEXES

