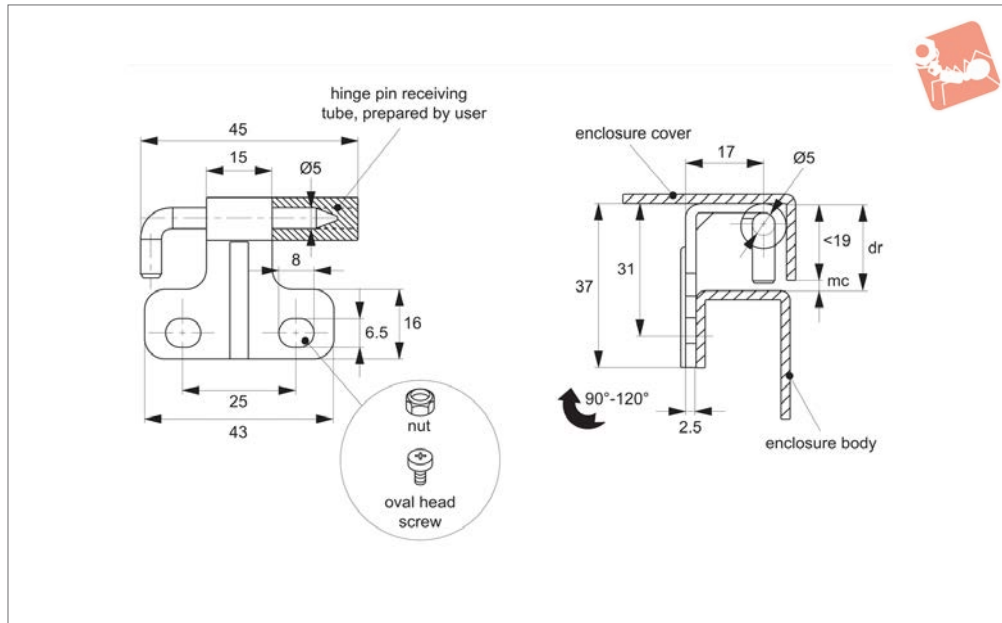


Concealed Pivot Hinges - Lift Off

21mm door return - weld and oval head screw - steel



Hinges



S2176

HINGES

Material

Hinge: steel, black powder coated.
Pin: steel, white zinc plated.

Technical Notes

Suited to sheet metal and machine enclosures with a 21mm door return. Main body mounted via two M6 screws, hinge plate

welded to frame (copper plated for improved welding).
Opening angle: 120°.

Important Notes

Female hinge installation requires user to prepare a welded tube to receive pin: min. dia. 5mm.

dr= Maximum door return suitable for use with hinge.

mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

Order No.	Door return	Size	F_x N	F_y N	mc min.	ts panel thickness
S2176.AW0021	21	43 x 19,5 x 21	360	105	2	2

Mounting combinations

a nut

b nut

c oval head screw

d countersunk screw

welded stud

countersunk screw

e locking screw

f nut

g nut

oval head screw

integrated stud

oval head screw

The technical drawing illustrates a mechanical assembly with three primary views:

- Front View:** Shows a cylindrical component with a total length of 65 units. A central section has a diameter of 30 units and a length of 50 units. The thickness of the end flange is 5 units.
- Top View:** Shows a rectangular base with overall dimensions of 50 by 65 units. It features two mounting holes, each with a diameter of Ø5, spaced 50 units apart. Two additional holes, each with a diameter of Ø6.7, are located at the ends of the component.
- Side View:** Provides a cross-sectional view of the assembly. Key dimensions include a total width of 20.2 units, a mounting hole offset of 14.5 units, and a vertical clearance of 18 units. Internal features like the enclosure cover, enclosure body, and various fasteners (nuts and countersunk screws) are labeled. Angles of 90° are indicated for the mounting holes.

A legend identifies the components used in the assembly:

- nut**: Represented by a hexagonal nut symbol.
- b**: A yellow circle containing the letter 'b'.
- countersunk screw**: Represented by a screw head symbol.