

The Formwork Experts.

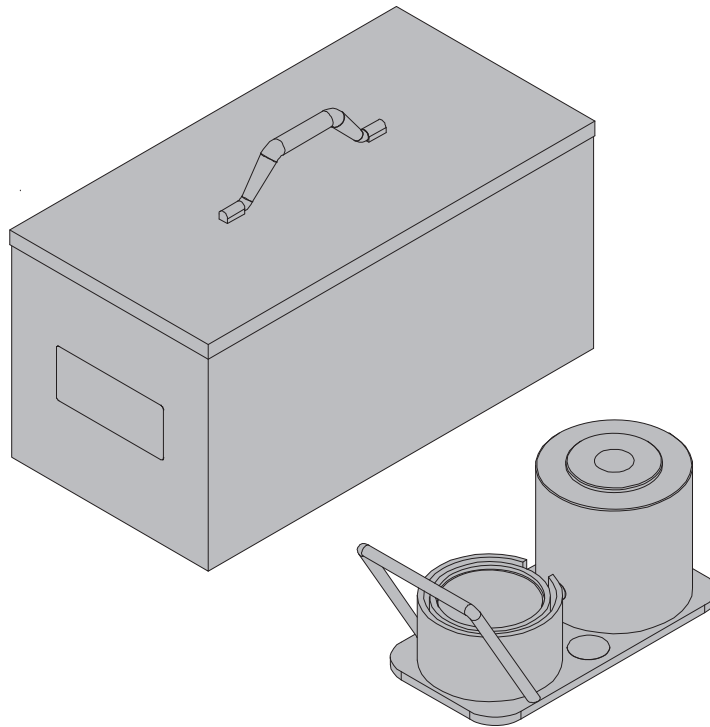
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# Form-tie load read-off device 300kN

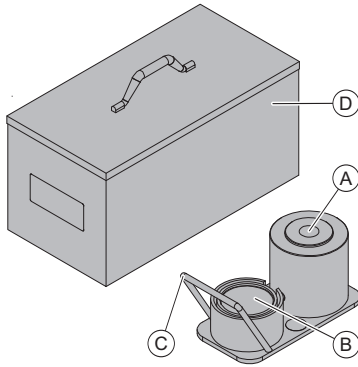
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## User Information



## Product presentation



- A Hollow-plunger cylinder
- B Pressure gauge with drag pointer
- C Handle
- D Carrying case

- The hollow-plunger cylinder has a pressure gauge with drag pointer.
- Direct indication of form-tie load, reading in kN and kip (10 kN = 1 t = 2.2 kip).
- Weight: 12.8 kg (including carrying case).
- The carrying handle doubles as a hang-up loop.

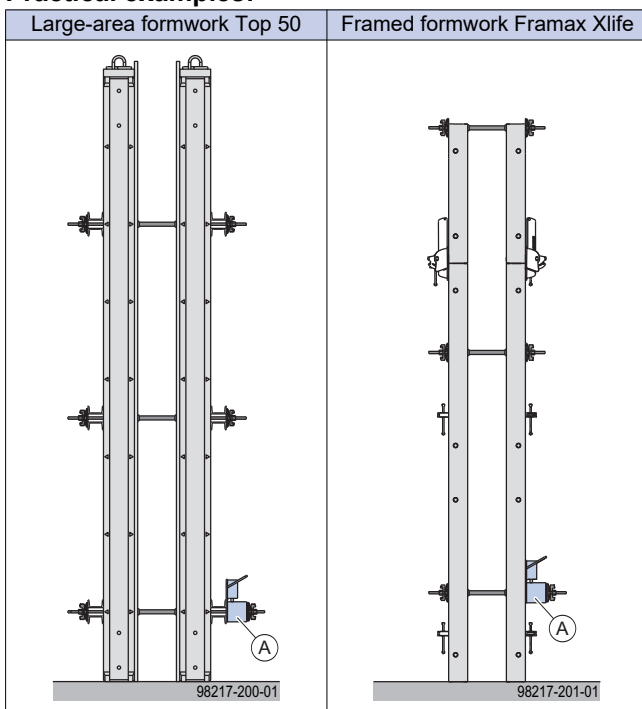
## Intended use

The Form-tie load read-off device 300kN indicates the form-tie load at wall formwork form-tie points. (Intended use).

### Boundary conditions for use:

- Tie rod systems 15.0 and 20.0
- Take readings only with Super plate 15.0 or Super plate 20.0 B.
- Use at temperatures down to -10 °C.

### Practical examples:



A Form-tie load read-off device 300kN

## Storage

Store form-tie load read-off devices protected against direct weather influences and aggressive substances (in its carrying case).

## Maintenance & inspection

- Repairs may only be carried out by the manufacturer!
- Doka accepts no liability for products that have been altered!

### Before every use

- ▶ Check for any signs of damage or visible deformation.
- ▶ Make sure that the piston is extended by between 1 cm and 2.5 cm. If the piston does not extend at least 1 cm, the form-tie load read-off device must be inspected by the manufacturer.
- ▶ The pointer on the pressure gauge must be at 0 kN.
- ▶ Tap the display gently to zero it

### At regular intervals

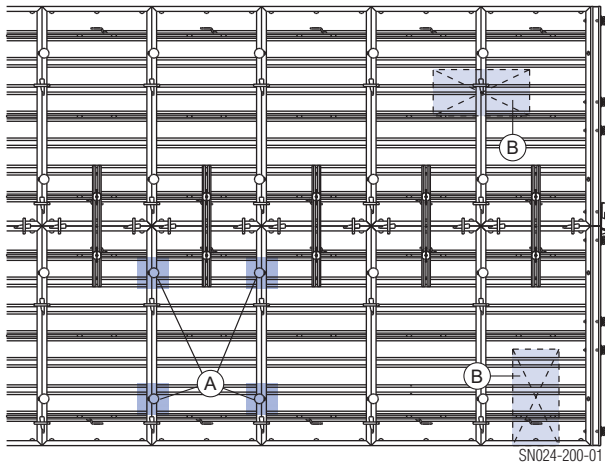
- Inspection of form-tie load read-off devices must be performed at regular intervals by an **expert** in conformity with **national statutory provisions**. Unless otherwise stipulated, such inspection must be carried out **at least once a year**.

## Positioning the 'Anchor load read-off device'

### Take note of the following points:

- ▶ Position the form-tie load read-off device in an area where it is unlikely to be disturbed. Embedded components or stop-ends make it much more difficult to determine the influence. Avoid positioning the form-tie load read-off device anywhere near embedded components.
- ▶ Position the form-tie load read-off device between 2 wide panels, in order to minimise any influences from adjacent panels.
- ▶ The maximum fresh-concrete pressure can be expected in the bottom part of the formwork. For the fastest possible adjustment in the rate of placing, the form-tie load read-off device should be positioned in the bottom or bottom-but-one row of form ties.

### Possible positions, having regard to embedded components



- A Possible positions of the form-tie load read-off device
- B Embedded components (indicated symbolically)



#### NOTICE

To provide clearer illustrations, the formwork solutions are not always shown in their entirety.



Follow the directions in the User Information booklet of the formwork system that is being used!

## Operating the system



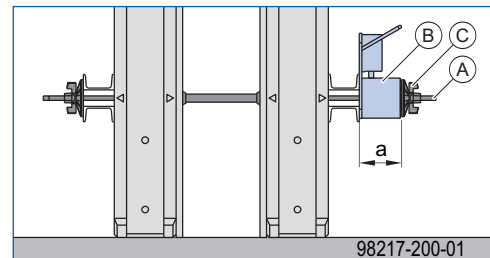
#### NOTICE

The form tie must be long enough to accommodate the 16 cm overall height of the cylinder.

- ▶ Clamp the form-tie load read-off device to the form-tie point with a super plate. Check that the plunger rod also does not move when under load (so that the formwork is not moved either).



The pressure gauge must be positioned vertically above the tie rod.



a ... 16 cm

- A Tie rod 15.0 or 20.0
- B Form-tie load read-off device 300kN
- C Super plate 15.0 or Super plate 20.0 B



#### NOTICE

▶ Before reading off the form-tie load, tap the pressure gauge lightly.

This improves the accuracy of the reading.

- ▶ Adapt pouring rate to the permitted form-tie loads.



#### CAUTION

Hydrostatic pressure may lead to inadmissible deformation or even breakage of the formwork (especially if external vibrators are used).

- ▶ For vibrating the concrete after pouring, bear in mind that hydrostatic pressure occurs in the range of action of the vibrator.

## Near to you, worldwide

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Doka is one of the world leaders in developing, manufacturing and distributing formwork technology for use in all fields of the construction sector.

With more than 160 sales and logistics facilities in over 70 countries, the Doka Group has a highly efficient distribution network which ensures that equipment and

technical support are provided swiftly and professionally.

An enterprise forming part of the Umdasch Group, the Doka Group employs a worldwide workforce of more than 6000.

