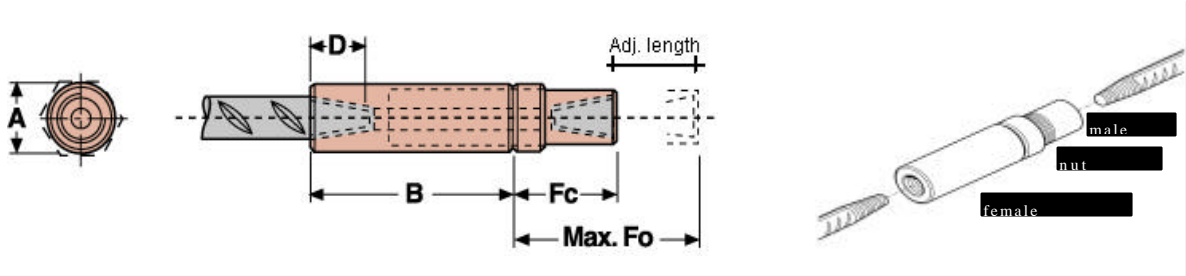


Technical data sheet: Position coupler P13

This data sheet gives detailing, application and installation information on LENTON P13 coupler

General

Type P13 can be used to splice bars, when neither bar can be rotated. P13 couplers are used when the ongoing bar is restricted in its axial movement.



(For coupler dimensions see LENTON brochure.)

| Coupler-type | art. no. | ø coupler [mm] | adjust. length [mm] | size M [mm] | min. bar space [mm] | max. bar space [mm] | Torque [Nm] | Material | | |
|--------------|----------|----------------|---------------------|-------------|---------------------|---------------------|-------------|----------|--------|--------|
| | | | | | | | | male | nut | female |
| EL10P13 | 150180 | 22* | 43 | 25 | 98 | 123 | 40 | 1.0758 | 1.0758 | 1.0758 |
| EL12P13 | 150190 | 22* | 43 | 20 | 100 | 124 | 40 | 1.0758 | 1.5217 | 1.0758 |
| EL14P13 | 150200 | 27* | 43 | 20 | 104 | 126 | 80 | 1.0758 | 1.5217 | 1.0758 |
| EL16P13 | 150210 | 27* | 45 | 20 | 112 | 133 | 120 | 1.0758 | 1.5217 | 1.0758 |
| EL18P13 | 150220 | 33 | 45 | 15 | 117 | 133 | 150 | 1.0758 | 1.5217 | 1.7227 |
| EL20P13 | 150230 | 33 | 53 | 15 | 139 | 156 | 180 | 1.0758 | 1.5217 | 1.7227 |
| EL22P13 | 150240 | 41 | 58 | 20 | 144 | 164 | 220 | 1.7227 | 1.5217 | 1.7227 |
| EL25P13 | 150250 | 41 | 60 | 20 | 154 | 173 | 270 | 1.0758 | 1.5217 | 1.7227 |
| EL28P13 | 150260 | 46 | 65 | 20 | 164 | 186 | 270 | 1.0758 | 1.5217 | 1.7227 |
| EL30P13 | 150270 | 52 | 65 | 10 | 174 | 186 | 300 | 1.7227 | 1.5217 | 1.7227 |
| EL32P13 | 150280 | 52 | 65 | 20 | 177 | 196 | 300 | 1.0758 | 1.5217 | 1.7227 |
| EL34P13 | 150290 | 52 | 65 | 10 | 187 | 196 | 300 | 1.7227 | 1.5217 | 1.7227 |
| EL36P13 | 150300 | 58 | 73 | 20 | 190 | 210 | 300 | 1.7227 | 1.7227 | 1.7227 |
| EL38P13 | 150310 | 64 | 81 | 25 | 201 | 228 | 350 | 1.0758 | 1.7227 | 1.7227 |
| EL40P13 | 150320 | 64 | 81 | 20 | 212 | 235 | 350 | 1.0758 | 1.7227 | 1.7227 |
| EL43P13 | 150330 | 75 | 81 | 15 | 227 | 241 | 350 | 1.7227 | 1.7227 | 1.7227 |
| EL50P13 | 150340 | 80 | 98 | 25 | 249 | 276 | 350 | 1.7227 | 1.7227 | 1.7227 |
| EL57P13 | 150350 | 95 | 99 | 15 | 267 | 282 | 350 | 1.7227 | 1.7227 | 1.7227 |

* **adjustment length** = $F_o - F_c$: length that the coupler can be extended.

* **size M** is the maximum gap between the body of the coupler and the bar end of the second rebar on which a connection can be made. (see: Installation, page 2)

* **min. bar space** is the minimum gap between the bar ends where still a connection can be made. (see: Installation, page 2)

* **max. bar space** is the maximum gap between the bar ends where still a connection can be made. (see: Installation, page 2)

SPECIFICATIONS MATERIAL

| Materials nr | Material grade | Norm | Remarks |
|--------------|----------------|--------------|-------------------------------|
| 1.0758 | 60S20PbK | DIN 1651 | |
| 1.5217 | 20MnV6 | ERICO Ma1011 | alternative material 42CrMoS4 |
| 1.7227 | 42CrMoS4 | EN 10-083 | |

When to use ?

The specific use of a P13 is when the second rebar can not be moved in axial directions and when it can not be rotated.

The P13 actual can meet the second rebar. The maximum gap between the coupler which is fully tightened on the first rebar and the second rebar that can be closed is presented as the size M from the chart above.

Examples where a P13 coupler is most likely to use are:

| | | | |
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- joining of rebar cages,
- rebar to be connected out of prefabricated concrete elements in combination with a P15 coupler,
- to close temporary openings in concrete structures in combination with a P15 coupler

Installation P13 coupler

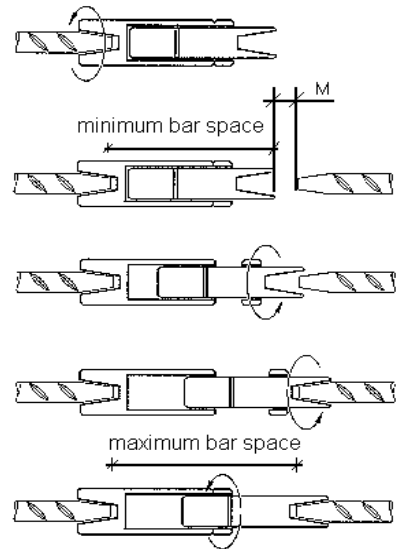
Ensure coupler is fully screwed together and tightened onto the first bar. When the female coupler part only has been installed on the first rebar which is already poured into the concrete just screw the male part and the nut fully into the coupler body.

Bring the second rebar as close as possible into the coupler and ensure that the gap between coupler and bar is not greater than the extension possibility (size M) of the coupler.

Turn the male part out of the coupler onto the threaded second rebar.

Tighten male part fully onto the second bar according to the torque mentioned in the torque table.

Spin the nut back to the coupler body and tighten it fully.



Make sure that the groove in the thread of the male part can not be seen.

| | | | |
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