# Tightening device for MP JET ball links and plastic clevises

## MPJ 96100 – MPJ 96104

Tightening devices are designed to be used in assembling, adjusting or easier tightening of MP JET ball links and MP JET plastic clevises to a pushrod (coupler).

The specific size of the device has to be chosen according to the parts (ball links and clevises) with which the device will be used – see table.

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| MPJ | 96100 | Tightening device for ball links V1, Ø 3 and plastic clevises l=17 mm |
| | | (MPJ 2410-2413 and MPJ 2100-2105) |
| MPJ | 96101 | Tightening device for ball links V1, Ø 4 and plastic clevises l=23 mm |
| | | (MPJ 2400-2409 and MPJ 2110-2111) |
| MPJ | 96102 | Tightening device for ball links V1 and V2, Ø 5 and plastic clevises l=26 mm |
| | | (MPJ 2330-2333, 2420-2443 and MPJ 2114-2115) |
| MPJ | 96103 | Tightening device for ball links V1 and V2, Ø 5 and plastic clevises l=30 mm |
| | | (MPJ 2330-2333, 2420-2443 and MPJ 2130-2135) |
| MPJ | 96104 | Tightening device for ball links V1, Ø 7 and plastic clevises l=44 mm |
| | | (MPJ 2450-2467 and MPJ 2124-2127) |

**How to use the product:**

1. For MP JET ball links – the side of the fixture with a groove is used. First, a brass pin is squeezed out of the ball link (if it is a type of ball link with only a ball, some sizes can be inserted with the ball pin into the device). After that, the plastic part of the ball link is inserted into the hole so that the threaded part into which we will mount the pushrod (coupler) faces outwards. It is now easier to screw the pushrod (coupler) into the ball link. Finally, the ball link is pulled out of the device and the brass pin is pressed back in.
2. For MP JET plastic clevises – the side of the device without the groove is used. The slotted clevis is put into the brass part in the hole. After that, it is easier to screw the fork into the pushrod (coupler).


The crossbar is axially movable, so it is possible to tighten using the tool even in a part of the model where there is limited space (e.g. right next to the hull or near the rudder). The amount of stiffness with which the bar is moved can be adjusted using a hex key by inserting a hex key of the appropriate size (1.5 mm for MPJ 96100 or 2 mm for MPJ 96101-96104) into the side for mounting the ball link (the side with a groove) and by gently tightening or loosening the adjusting hex set screw at the bottom of the hole, the required pressure force for the rubber braking element inside the device is set.

**Crossbar adjusting options:**

1. If there is enough space, the crossbar is set to the middle position.
2. If there is little space and more force is needed (especially for the initial assembly of the ball joint or clevis), it is possible to move the rod off-centre.
3. If there is little space and no greater force is needed - i.e. it is enough to rotate the product with your fingers with the ridged surface, the crossbar can be completely removed so that it does not interfere.

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