Hitz
Hitachi Zosen

HSP Hitz Information of Engine Parts

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Engine Type : All

Introduction of new type coupling (for high pressure hose of hydraulic tightening jack)

Regarding coupling for high pressure hose supplied for the main engine hydraulic tightening jack, new type coupling has been released from the manufacturer (CEJN) and we apply this new type coupling immediately after the stock ends. The new type coupling has a bayonet type safety locking function and red alert ring for connection confirmation to prevent unexpected disconnection under pressure, so that it can be used much more safely.

For details, please refer to the attached manufacturer's instruction manual.

In addition, with introducing this new type coupling, the 200MPa type coupling will be discontinued and the supply is unified to the 250MPa type coupling. There is connection compatibility between the coupling connection side nipple for the 200MPa type and the one for the 250MPa type each other, so they can be used without changing the nipple.

Caution: Please use them with setting the maximum allowable pressure of the hydraulic tightening jack as the upper limit.

Conventional type coupling

New type coupling

For more information or purchase order, please contact our representative or following our sales office.

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Connecting Instruction for New series 115, 116, 117 and 125 coupling

Significance of development for new type coupling

In high-pressure hydraulic systems, unexpected accidents may occur due to incorrect connection between components, actuators, piping, hoses, couplings, etc. Because of the high pressure, once an accident occurs, it must be said that the risk of enormous human and machine damage is extremely high. Very high level of safety is required. Therefore, at our company, in order to prevent unexpected disconnection under pressure, a bayonet type safety locking function and a red alert ring for confirming the correct connection are adopted as standard on all the above-mentioned couplings which can be used more safely.

Differences from conventional products

- The appearance shape has changed as follows. Two blue lines are printed on the coupling body, which is intended to differentiate it from conventional products.
- The ball lock type or thread lock type safety locking function were available as an option for the conventional products, but all the new type couplings have adopted the bayonet type safety locking function as standard.
- The red alert ring for confirming the connection is same as conventional couplings. Also the part numbers of couplings do not change.
- Adopting soft resin for new dust caps (come with couplings as standard) for easy handling even in winter time.

Conventional type coupling

New type coupling

You can link from the QR code here to the animation video of the connection method.

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Bayonet type safety locking function

1. As before, connect the nipple by pulling the sleeve as shown in (Fig. 2) from the disconnected position (Fig. 1). After inserting the nipple, release the sleeve and make sure that the red alert ring cannot be seen on coupling as shown in (Fig. 3).

Fig.1 disconnected position

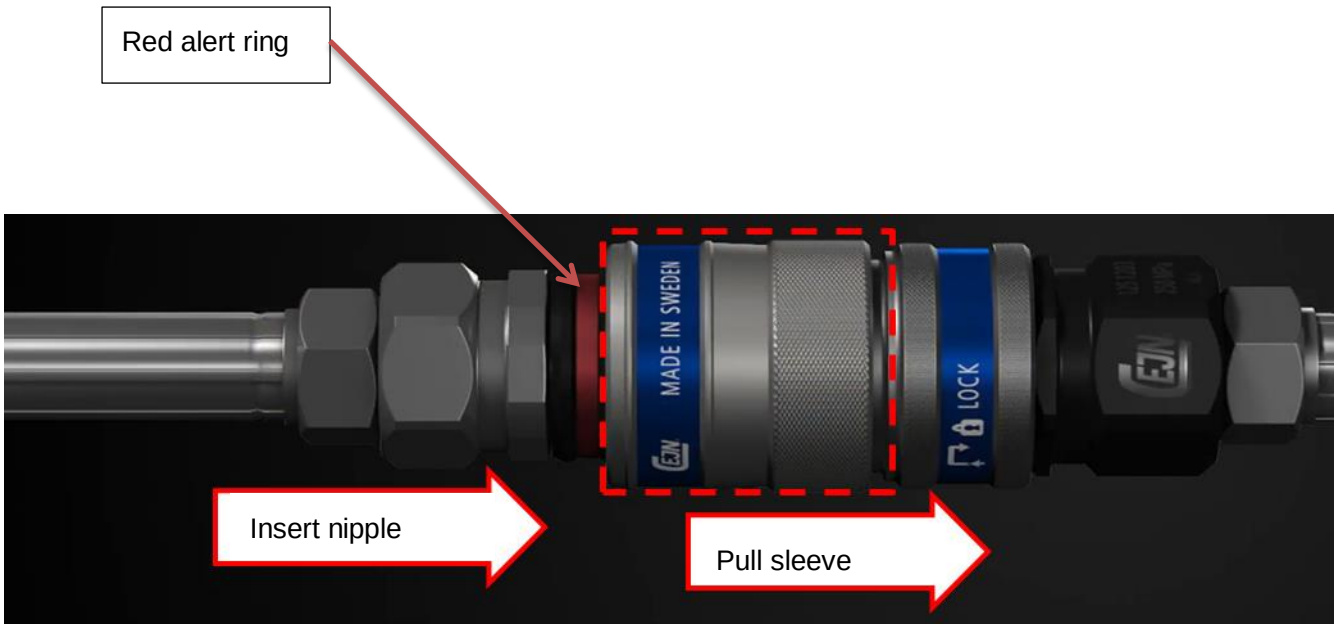

Fig. 2 Insert the nipple

2. After confirming the connection (Fig. 3), be sure to enable bayonet type safety lock. As for the method, push up the lock sleeve, and just turn the lock sleeve **clockwise until it stops** as shown in (Fig. 4). And then you release the lock sleeve, the lock sleeve will automatically lower and lock it.

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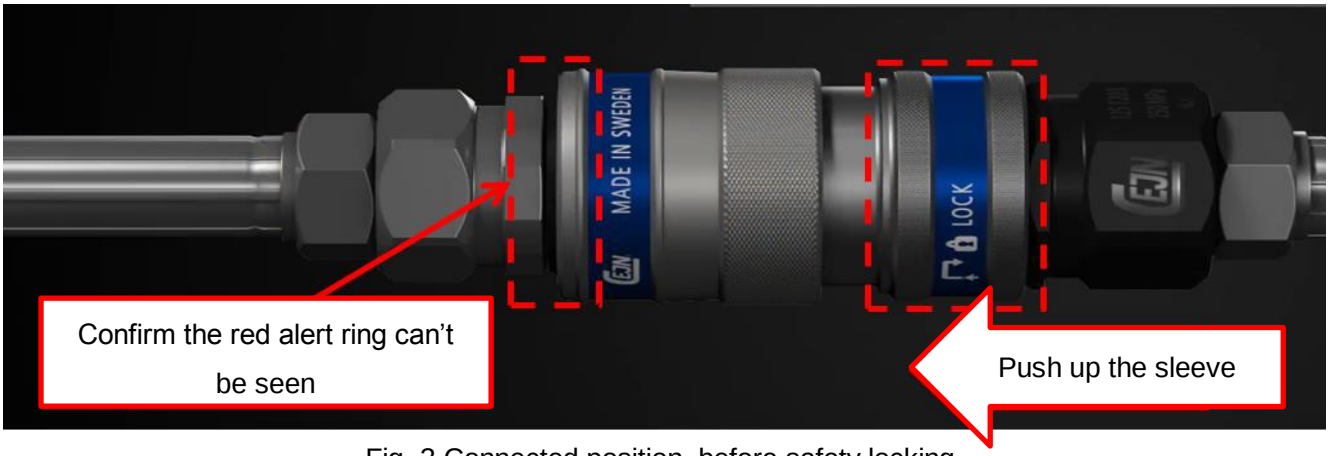

Fig. 3 Connected position, before safety locking

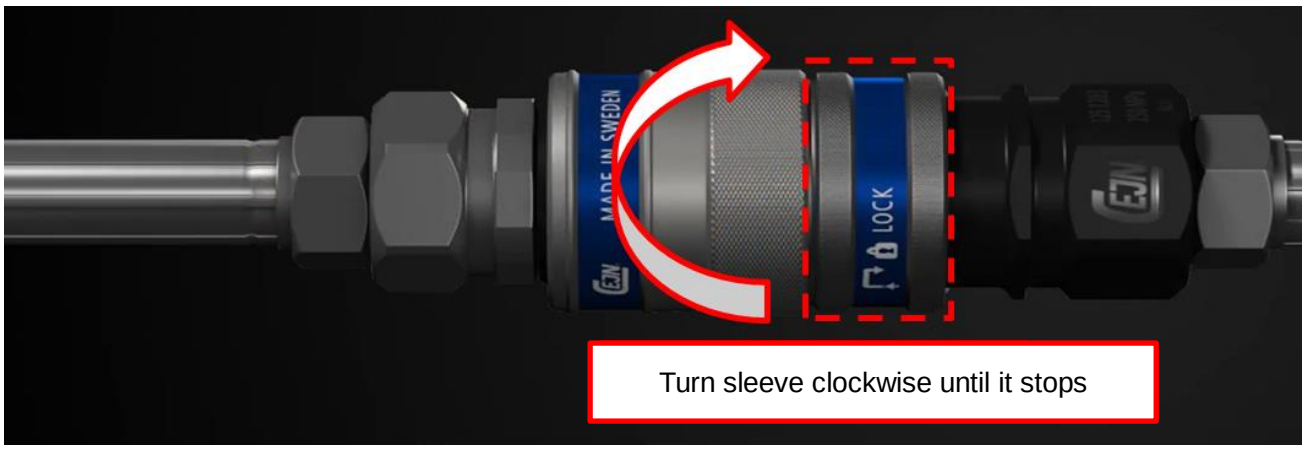

Fig. 4 Connected position, with safety lock

3. Figure 5 shows the safety lock enabled. When connecting the coupling, to avoid contamination into dust caps, be sure to connect each dust caps tangled with the coupling.

Fig. 5 Connected position for both coupling and dust caps with safety lock

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