

# General installation guide

## Manually operated multi-couplings

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This guide is not subject to updating.  
The German version is the original.

# 1 General installation guide

## 1.1 About this guide

These instructions provide guidance on installing a manually operated multi-coupling on a customer structure that does not yet have any mounting holes.

These instructions apply only in conjunction with the currently valid project-specific documentation, such as overview drawings, functional diagrams, and CAD models.

All illustrations are symbolic and may differ from the actual product. Colour highlighting is for illustrative purposes only.

Installation work may only be carried out by qualified persons in compliance with the relevant accident prevention regulations and in accordance with the state of the art.

Electrical connections may only be made by trained and authorised electricians.

If you have any questions, please contact our Technical Service.

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## 1.2 Liability

**WALTHER-PRÄZISION shall assume no liability or warranty for the completeness, correctness and topicality of the information provided in its print media and on its website. Therefore, all information is non-binding and subject to changes and errors. Illustrations are similar.**

Due to the different functionalities and the versatility of use of quick coupling systems, WALTHER-PRÄZISION and the associated network of dealers is not able to guarantee that a specific quick coupling system is suitable for each specific end use. Not all of the technical details that are to be taken into consideration in the selection of a quick coupling system are being analysed. The user is responsible for their own analysis of the following points:

- For safe operation and compliance with all performance, durability, maintenance, safety and warning requirements.
- The selection of their quick coupling system.
- The fulfilment of the requirements of the end user.
- The safety precautions which are necessary in order to avoid personal injuries and damage when using quick coupling systems.
- Own technical changes.

Technical performance data applies under ideal conditions and is provided without guarantee. Liability for the accuracy of performance data for the respective application at the customer's premises is excluded.

## 1.3 Safety precautions

As a matter of principle, all WALTHER-PRÄZISION products are intended only for use in the industrial or commercial sector, observing the relevant occupational health and safety regulations in each case.

Only trained professionals or persons instructed by professionals may work on and with WALTHER-PRÄZISION products, e.g. install, operate, maintain, and repair them.

You can find our detailed safety instructions on our website under “Service” or use the QR code provided.



	<p><b>⚠ WARNING</b></p> <p><b>Danger from suspended loads.</b></p> <p>Possible personal injury and property damage.</p> <ul style="list-style-type: none"> <li>▶ Use lifting equipment of sufficient capacity.</li> <li>▶ Use the attachment points provided for lifting (e.g. eye bolts).</li> <li>▶ Do not work under suspended loads.</li> <li>▶ Only detach the multi-coupling from the crane once it is securely attached to the customer structure.</li> </ul>
	<p><b>⚠ WARNING</b></p> <p><b>All parts that are subject to spring force spring out of position with momentum due to the preload of the spring when the respective retaining mechanism is removed.</b></p> <p>Bruising and crushing of body parts is possible.</p> <ul style="list-style-type: none"> <li>▶ It must be secured by hand.</li> </ul>
	<p><b>⚠ WARNING</b></p> <p><b>When coated components are heated, e.g. by welding or soldering, hazardous gases may be produced.</b></p> <p>Personal injury and property damage, e.g. to seals.</p> <ul style="list-style-type: none"> <li>▶ Use appropriate protective devices and personal protective equipment when performing this task.</li> <li>▶ Avoid heating coated components.</li> </ul>

## 1.4 Preparing for installation

- Check the assignment between the free half and the fixed half before removing the quick coupling system from the packaging.

The following information is provided on WALTHER-PRÄZISION packaging:

- **Order number**
- **Ident number**

When assigning the fixed and free halves, ensure that the halves match.

- Check the quick coupling system for transport damage.
- Ensure that the pipe network into which the quick coupling system is being installed has been adequately cleaned, flushed or blown out.
- Remove transport locks, such as transport lock bolts or pipe clamps, unless they are necessary during installation.

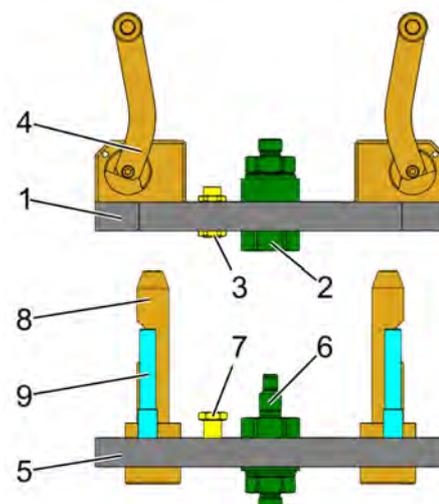
## 1.5 Installation in potentially explosive atmospheres

**For a multi-coupling that complies with Directive 2014/34/EU ("EX" in the order number), the following also applies:**

- The operator must take suitable measures to ensure that the quick coupling system cannot fall down during installation, operation, maintenance and repair and hit hard objects that could generate impact sparks.
- The quick coupling system must be protected against direct lightning strikes by suitable means, e.g. by a lightning protection system.
- The quick coupling system may only be connected to pipe or hose lines that have an electrostatically dissipative connection to earth potential.
- It must be ensured that the proper earthing of all relevant components of the multi-coupling is checked before installation, during operation and after maintenance or repair work in order to avoid the risk of static charging and sparking in the potentially explosive area.

## 1.6 Schematic overview of a manually operated multi-coupling

1. Free half  
*Moved towards the fixed half when coupling.*
2. Coupling element
3. Proximity switch
4. Manual locking
5. Fixed half  
*Remains in its position during coupling.*
6. Adaptor element
7. Contactor (fixed stop)
8. Guide and locking bolt
9. Unlocking stop



## 1.7 Fastening the multi-coupling to the customer structure



### NOTE

If fasteners are supplied by WALTHER-PRÄZISION, these must be used.

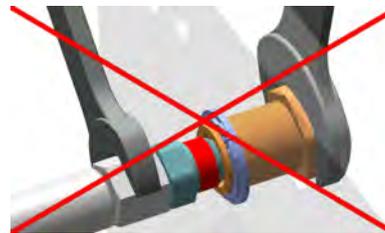
- Align the fixed half with the corresponding customer structure and secure it in place.
- Mark attachment points on customer structure.
- Remove the fixed half from the customer structure.
- Drill the necessary holes in the customer structure (no pin holes yet!).
- Screw the fixed half onto the customer structure and tighten the screws.
- If there are pin holes, additionally pin the fixed half if necessary.

## 1.8 Connecting built-in elements

- Any radial loads that occur as a result of long and heavy connecting hoses are to be cushioned by appropriate support equipment.
- Lay all connections of the quick coupling system (cables, hoses and pipes) in such a way that they do not create any hazards (tripping, falling).
- The screw connections on the customer connection side must be made in accordance with the state of the art.
- Only use sealants that are compatible with the media to be transported.
- Only use open-ended spanners of the appropriate size, not pipe wrenches or adjustable wrenches.
- For built-in elements with screw-in end plug:

Only use the open-ended spanner on the end plug of the built-in element!

Do not place the open-ended spanner on the housing of the built-in element!



The built-in element could be disassembled unintentionally.

## 1.9 Change the switching distance of the proximity sensors

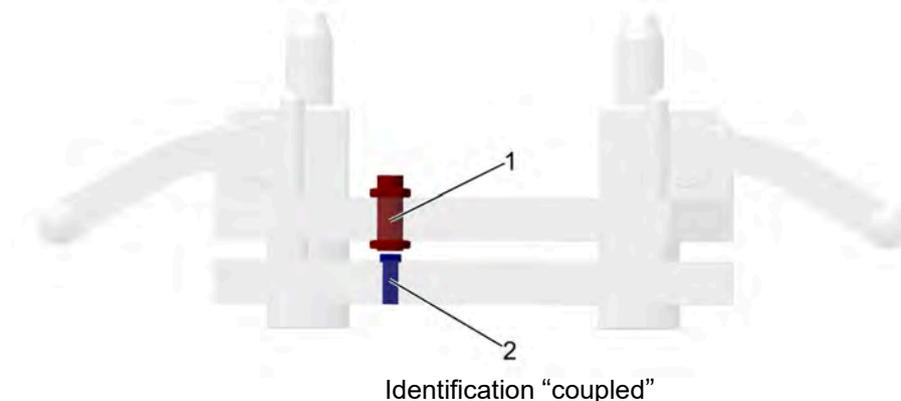
Proximity switches are preset to the correct switching distance at the factory by WALTHER-PRÄZISION.

To change the switching distance:

On the finally mounted multi-coupling, set the switching distance of any proximity switches in accordance with the currently valid overview drawing.

To do this, turn the lock nuts of the proximity switches (1) accordingly.

The fixed stop (2) as a contact switch must not be loosened or adjusted.



## 1.10 Before starting operation

- Check that all screw connections are tight.
- Check media elements and connections for leaks.