

Operating instruction english

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This operating instruction is not subject to the updating

Self sealing coupling

1-06-003-0-.....-...-

1-06-003-1-.....-...-

optional feature:

OV

Vor Beginn aller Arbeiten
Betriebsanleitung lesen!

*Read operating instruction
before beginning of all works!*

Betriebsanleitung immer
AUFBEWAHREN!
griffbereit am Gerät

*Always KEEP operating
instruction! In a ready hand
way at the device*

Achtung: Vor Inbetriebnahme
Gerät auf mängelfreien Zustand
und technisch einwandfreie
Funktion kontrollieren.

*Caution: Before starting-up
check device on faultless
condition and technically
perfect function.*

Das Original ist die
deutsche Fassung

*The German version
is the original*



This coupling is a quality product, in which special attention has been paid to high functionality, ease of operation, safety and reliability. As an item of technical equipment this tool-changer is intended for use in the commercial, industrial area and for operators, who have been trained by specialists in the handling of technical systems / tools.

Customer care:

As part of our individual customer care we will be happy to assist you in questions relating to use and operation and on any problems encountered.

Service and maintenance:

In order to maintain the high technical performance capability and reliability of your docking system over many years, we recommend regular inspection and maintenance.

We can thereby offer you optimum support by our Customer Service department and the conclusion of a service and maintenance contract. Please ask for a quotation.

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2 General

This manual contains all regulations for operation, commissioning and maintenance of the locking coupling elementcoupling.

All information and notes in this operating manual were collated while taking into consideration the valid regulations, the current engineering related status of development as well as our many years of experience and acquired knowledge.

Translations of this operating manual were also produced according to the best of knowledge. However, we cannot assume liability for any translation errors. The German version provided for this operating manual is considered the authoritative version.

The actual scope of delivery can deviate from the explanations and graphic representations described herein under certain circumstances, e.g. in the case of special designs, utilization of additional order options or because of state-of-the-art technical alterations.

If you have any questions, please contact the manufacturer.



This operating manual must be read carefully before starting work on or with the equipment, in particular before commissioning!

The manufacturer assumes no liability for damage or faults arising from non-compliance with the instructions in this operating manual.

The operating manual must be kept directly with the equipment and be accessible to all persons who work on or with the equipment.

It is not permitted for the operating manual to be passed to third parties and if applicable this will incur damage compensation.

All other rights reserved.

Before commissioning the device must be checked for being not defective and its technically perfect function.

The German version is the original.

We reserve the right to make technical alterations to the product within the context of improving the usage properties and further development.

The operating manual remains our property.

Any reproduction, use by or communication to third parties incurs a penalty and will be pursued by court action (copyright law against unfair competition, BGB [German Civil Code]).

All rights reserved in the case of a patent award (Paragraph 7, Section. 1 of the patent law - PG) or entry as a patented design (Paragraph 5, Section 4 of the patented design law - GMG).

3 Warranty

The warranty conforms to:

the regulations agreed in the purchase contract and
the “General Conditions for Delivery and Capacity” of C.K. Walther GmbH & Co. KG
of the state which was valid at the date of the purchase contract.

Wearing parts are generally excluded from the warranty.
Typical wearing parts of products from company C.K. Walther GmbH & Co. KG
are for example:

- seals
- springs

Safety instructions

4 Safety instructions

Using these couplings does not release the customer from his obligation to comply with the pertinent work safety regulations e.g. operational safety regulations, etc. The duty to take due care by the operator of the couplings includes planning measures to ensure proper operation and monitoring their implementation.


 Hazard notes

If the wrong product has been selected or if there is improper use or maintenance has been omitted, then hazards arise and personal injuries and material damage can occur from:

- hazardous emission of fluid or individual particles/coupling parts.
- function impairments of connected systems or tools.
- the metal parts of coupling and adaptor are not thermally protected. In case of high media temperatures the contact with these parts can lead to combustion. According to the ambient temperature valve handle and ring grip can also become very hot. For that reason sufficiently long protective gloves must be worn in these cases.

 The operator must in particular make sure that

- the couplings are only used according to the intended purpose.
- the couplings are only operated in a perfect, functioning condition.
- the operating manual is always in a legible condition and is available in its entirety to operating personnel.
- the operating personnel are sufficiently acquainted with the working method and the safety notes for the coupling.
- no safety devices must be removed and/or deactivated during operation of the couplings.
- before installing or dismantling the couplings, you have made sure that the couplings have not been pressurized.

 After completing assembly and installation work and before commissioning the coupling, the following items have to be observed:

Check once again that all screw connections are securely fitted.

Before commissioning the couplings, a function test must be carried out (see maintenance and function test).

Product description of the self sealing coupling

5 Product description of the self sealing coupling

Coupling connection consists of:

- self sealing coupling 1-06-003-0-.....-..-
- self sealing adaptor 1-06-003-1-.....-..-

In case that both coupling halves are not connected they should be protected against external dirt and/or damages if required.

For that purpose dust cap and dust plug are available.

Possible combinations :

- | | |
|-----------------------|-----------------|
| self sealing coupling | 1-06-003-0 with |
| dust plug | 1-06-003-6 |
| self sealing adaptor | 1-06-003-1 with |
| dust cap | 1-06-003-5 |

5.1 Intended use

- The coupling shall only be used to connect two lines.
- The coupling- and decoupling process is manually operated.
- The coupling is equipped with an automatic lock, i. e.:

one-hand operation

- The coupling is particularly suitable for the following use of media / applications:

Mini coupling

- For all other possible applications please contact WALTHER-Präzision.

5.2 Technical data

- Working pressures of coupling depend on materials of individual parts.
- When determining the working with standardized threaded connections, the highest permissible working pressure of the connection must be taken into account.
- When selecting a suitable connection the following static pressure is possible:

operating pressure maximum: 100 bar (Messing)

Cv-value: 0.165

- The coupling is not determined for any types of use and technical values other than those listed here.
- Safe operation is not guaranteed if the coupling is used contrary to its intended use and technical values
- The operator of the coupling is responsible for all personal injuries or material damage that occur from non-intended use and disregard of the technical values; the manufacturer assumes no responsibility in these cases.

5.3 Optional Features

OV = without valve (no one hand operation)

Installation instruction

6 Installation Instruction

6.1 General

Subject to the general accident prevention regulations coupling is to be installed into a network in such a way that:

- a satisfactory operation is guaranteed according to the operating instruction .
- first of all self sealing coupling is used on line side and self sealing adaptor on consumer side
- external damage of the unit as well as all moving parts are excluded.

Before self sealing coupling and the self sealing adaptor are installed at a pipeline network make sure that the pipeline network is sufficiently rinsed/blown out and/or cleaned.



After the assembly works are finished a functional test is to be carried out with both, without pressure and under working pressure of the media elements according to operating instruction.

Operating instruction

7 Operating Instruction

In order to avoid critical injuries of the staff and damage at the self sealing coupling during operation, coupling may be only used for the stated applications.

7.1 Automatic lock

7.1.1 Connection process

Before each coupling process a visible check of the coupling and the adaptor has to be made. Damaged parts must be changed in case of observable, visible damages or deformations.

The self-sealing coupling is equipped with an automatic lock, i. e. one-hand operation. For coupling the self-sealing coupling behind the locking sleeve or the self-sealing adaptor in the end plug area is taken up with one hand and pushed axially centred on the counter piece until the end stop.

During the coupling the locking sleeve snaps in forward without the aid of the operator.

Now the self-sealing coupling and the self-sealing adaptor are locked mechanically. Available valves are opened during the coupling process and thus the passage is released.

CAUTION



Please take care that locking sleeve is in final position, i.e. that it is flush in front with the coupling housing as otherwise no perfect lock is guaranteed.

7.1.2 Disconnection process

For decoupling the self sealing coupling behind the locking sleeve is taken up with one hand and the locking sleeve is pulled back with the other hand and thus the connection is separated.

During the decoupling the available valves close automatically so that no further discharge of media is possible.

7.2 optional feature OV (no one hand operation)

7.2.1 Coupling process

Before every couple cycle a visual check of coupling and adaptor is to be carried out. In case of recognizable, visible damage or deformations damaged parts are to be exchanged.

Hold self sealing coupling firmly in one hand; with the other hand pull back locking sleeve. This has to be done against locking spring resistance.

Push free half (coupling) with withdrawn locking sleeve axially centered onto plug part of fixed half (adaptor) until sensible resistance.

Bring locking sleeve with support of locking spring into starting position.

Self sealing coupling and self sealing adaptor are now mechanically locked.

Operating instruction



CAUTION

Es Please take care that locking sleeve is in final position, i.e. that it is flush in front with the coupling housing as otherwise no perfect lock is guaranteed.

7.2.2 Disconnection process

Withdraw locking sleeve against locking spring and take out coupling from the self sealing adaptor.

Caution!

In case of an available pressure in the line connected by the coupling system a strong separation impulse - depending on the pressure - can be effective onto the coupling system during disconnection. For that reason the movable part of the coupling (free half) is to be firmly held in the hand to avoid injuries.

Maintenance and Functional instruction

8 Maintenance Instruction

Preventive maintenance measures

WALTHER self sealing couplings are to be operated in such a manner that external damages to elements and all moving parts are avoided.

8.1 Maintenance and functional test

In order to always guarantee function of the self sealing coupling and hence safety of operator, a maintenance and functional testing must be made in appropriate periods of time depending on operating conditions.

In order to minimize operating forces and to extend service life of the self sealing coupling we recommend to slightly grease plug surfaces (see item 9.0).

8.1.1 Maintenance includes following items:

- A visual inspection of self sealing coupling and self sealing adaptor regarding damage and contamination has to be made.
- Dirt at the functional area (sealing area, operating elements) which is easily accessible from outside should be removed by simply wiping-off.

If there are damaged, torn or corroded parts, coupling must be dismantled and returned to manufacturer for repair.

If worn or embrittled seals are found or if there is extreme dirt, the customer can decide whether he returns coupling unit to the manufacturer's factory or whether he repairs himself.

8.1.2 Functional test includes following items:

As described in the operating instruction, coupling is several times connected, pressurized and then disconnected.

In doing so, the following has to be observed:

- Connection and disconnection process must be absolutely smooth.
- Coupling must be absolutely leak-proof in connected and disconnected state.

If there are damaged, torn or corroded parts, coupling must be dismantled and returned to manufacturer for repair.

If worn or embrittled seals are found or if there is extreme dirt, the customer can decide whether he returns the coupling unit to the manufacturer's factory or whether he repairs himself.

9 Lubrication !

In order to minimize operating forces and to extend service life of the coupling we recommend to slightly grease plug surfaces.

Lubrication is to be carried out with greases which **do not** tend to become resin.



Caution !

The selection of the grease is to be suited to the sealing quality and the medium (e.g.: oxygen) in view of the compatibility.

10 Storage

The couplings must be stored in such a way that no damages can occur at the couplings.

The storage conditions of the couplings must comply with the guidelines for the seals as these can change in properties due to improper storage.

The following items must be kept:

- The couplings must be stored dry.
- To safely conserve the seals and that means also the couplings they should not be stored under the effect of daylight.
- For protection against oxygen the seals and also the couplings shall be stored into the packing.

11 Shut-down

At the end of the service life the coupling or its components have to be disposed non-polluting and according to the legal regulations.

For that the local public or private disposal societies should be taken.

12 Order number code

1. 2. 3. 4. 5. 6. 7. 8. 9.
 X - XX - XXX - X - XXXXXX - XX - X - XXX - XX
 X - XX - XXX - X - XXXXXX - XXXXX - XXX - XX

1. Subject group
2. Series
Series description consists of either two letters or two digits.
3. Nominal size / nominal width
It is rounded up or rounded down to full units.
The indication can be numerical or alphanumeric.
4. Type of product and design
5. Type of connection
6. Material:
xx-x and xxxx possible
7. Material (seal version):
xx-x and xxxx possible
8. Y- or Z-design
9. Optional features

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