

NSAI

ECE TYPE-APPROVAL CERTIFICATE



Communication concerning²

~~Approval granted~~
~~Approval extended~~
~~Approval refused~~
~~Approval withdrawn~~
~~Production definitively discontinued~~

of a type of mechanical coupling device or component pursuant to Regulation No.55.

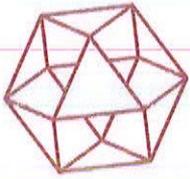
Approval No: E24*55R01/07*0527*01

Reason for extension:

Addition of trade names
Update of item 7.7. of information document
Update of Annex 3 - Drawing of Operating instructions
Change of technical service to TÜV NORD

1. Trade name or mark of the device or component:
2. Type of device or component:
3. Manufacturer's name and address:
4. If applicable, name and address of the manufacturers representative: *N/A*
5. Alternative supplier's names or trade marks applied to the device or component: *N/A*
6. Name and address of the company or body taking responsibility for the conformity of production: *See item 3.*
7. Submitted for approval on: *As before and 29.10.2024*
8. Technical service responsible for conducting approval tests: *TÜV NORD Mobilität GmbH & Co. KG
IFM - Institut für Fahrzeugtechnik und Mobilität,
Schönscheidtstr. 28, 45307 Essen
Germany*

² Strike out what does not apply.



Approval No: E24*55R01/07*0527*01

9.	Brief description	<i>See information document for details</i>
9.1	Type and class of device or component:	<i>Type: 53.001 Class: B50-X</i>
9.2	Characteristic values	
9.2.1	Primary values:	
	D:	<i>7.7 kN</i>
	Dc:	<i>---</i>
	S:	<i>75 kg</i>
	U:	<i>---</i>
	V:	<i>---</i>
	Alternative values:	
	D:	<i>---</i>
	Dc:	<i>---</i>
	S:	<i>---</i>
	U:	<i>---</i>
	V:	<i>---</i>
9.3	For Class A mechanical coupling devices or components, including towing brackets:	<i>N/A</i>
	Vehicle manufacturer's maximum permissible vehicle mass:	<i>N/A</i>
	Distribution of maximum permissible vehicle mass between the axles:	<i>N/A</i>
	Vehicle manufacturer's maximum permissible towable trailer mass:	<i>N/A</i>
	Vehicle manufacturer's maximum permissible static mass on coupling ball:	<i>N/A</i>
	Maximum mass of vehicle, with bodywork, in running order, including coolant, oils, fuel, tools and spare wheel (if supplied)but not including driver:	<i>N/A</i>
	Loading condition under which the tow ball height of a mechanical coupling device fitted to category M1 vehicles is to be measured – see paragraph 2 of annex 7, appendix 1:	<i>N/A</i>
9.4	For class B coupling heads, is the coupling head intended to be fitted to an unbraked O1 trailer: yes/no ²	<i>Yes</i>
10.	Instructions for the attachment of the coupling device or component type to the vehicle and photographs or drawings of the mounting points given by the manufacturer:	<i>See manufacturer's documentation</i>
11.	Information on the fitting of any special reinforcing brackets or plates or spacing components necessary for the attachment of the coupling device or component:	<i>See manufacturer's documentation</i>

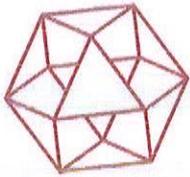


Approval No: E24*55R01/07*0527*01

12. Additional information where the use of coupling device or component is restricted to special types of vehicles - see annex 5, paragraph 3.4: *See manufacturer's documentation*
13. For Class K hook type couplings, details of the drawbar eyes suitable for use with the particular hook type: *N/A*
14. Date of test report: *As before and 26.10.2024*
15. Number of test report: *New: CS055-B0-2024-05002
Former: OPH-T-00471-00 Rev00*
16. Approval mark position: *Rating plate affixed to the surface
Refer to Annex 1*
17. Reason(s) for extension of approval: *See page 1 of certificate for details*
18. Approval ~~granted~~/extended/~~refused~~/~~withdrawn~~: *Extended*
19. Place: *Dublin*
20. Date: *06th December, 2024*
21. Signature: 



22. The list of documents deposited with the Administration Service which has granted approval is annexed to this communication and may be obtained on request.



NSAI

Approval No: E24*55R01/07*0527*01

Index to the Information Package

Date of issue: *26th October, 2018*

Date of latest amendment: *06th December, 2024*

Reason for extension/revision: *See top of page 1 of certificate for details*

1. Additional conditions, and advisory notes on legal alternatives.

2. Test report(s)

- numbers(s): *New: CS055-B0-2024-05002*
Former: OPH-T-00471-00 Rev00

- date of issue: *11.09.2018*

- date of latest amendment: *26.10.2024*

3. Information document

- number(s): -

- date of issue: *20.08.2018*

- date of latest amendment: *25.10.2024*

Documentation: *14 pages*



Approval No: E24*55R01/07*0527*01

Appendix: **Additional conditions, and advisory notes on legal alternatives**

A: Additional conditions:

1. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
2. Each type from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
3. Changes in the type are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
4. At regular intervals, any tests or associated checks prescribed by the applicable legislation to verify continued conformity with the approved type shall be carried out. The manufacturer shall demonstrate compliance with this by submitting to NSAI evidence of adequate arrangements and documented control plans for each type approved.
5. Any set of samples or test pieces showing evidence of non-conformity shall give rise to further sampling and testing and all steps shall be taken to restore conformity of production.
6. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options:

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.

Ver.: 07/2021
Rev.: 01

Test Report
No. : CS055-B0-2024-05002
ECE Regulation No.55



Type :
Manufacturer :

Test Report

Agreement concerning the adoption of uniform technical prescriptions for the wheeled vehicles, equipment and parts which can be fitted and/or be used on wheeled vehicles and the conditions for reciprocal recognition of approvals granted on the basis of these prescriptions

Uniform provisions concerning the approval of

MECHANICAL COUPLING COMPONENTS OF COMBINATIONS OF VEHICLES

ECE-R55
as last amended

Supplement 07 to the 01 series of amendments

Approval status	
ECE	Number of approval
	E24*55R01/07*0527*01

Type :
Manufacturer :

0. General information

- 0.1. Make (trade name of manufacturer) : MAYPOLE;

- 0.2. Manufacturer's name for the type of device or component :
- 0.3. Class of device or component :
- 0.4. Commercial description(s) : Not applicable
- 0.5. Name and address of manufacturer :

- 0.6. Name and address of company or body :
taking responsibility for the conformity
of production

- 0.7. No. of information document :
- 0.7.1. Date of issue : October 25, 2024
- 0.7.2. Date of last change : --

Type :
Manufacturer :

1. Test information

1.1. Test object(s)

Type of device or component :

Class of device or component :

1.2. Worst case : Not applicable

1.3. Test date : ---

1.4. Test site : ---

1.5. Remarks : ---

2. Test minutes

2.1. Test facilities : The test equipment complied with the requirements of the Regulation.

2.2. Test results : The previous granted approval are still valid. No actual test is necessary.

Refer to previous test report OPH-T-00471-00
Rev00 corresponding to Type approval No:
E24*55R01/07*0527*00

Ver.: 07/2021
Rev.: 01

Test Report
No. : CS055-B0-2024-05002
ECE Regulation No.55



Type :
Manufacturer :

4. Appendices

- 0 List of modifications
Information document

5. Statement of conformity

The type described in this test report and the appendices attached are in compliance with the Test Specification mentioned above.

The ~~samples /~~ test vehicles used were representative in terms of the type to be approved.

The Test Report comprises pages 1 to 5.

The Test Report shall be reproduced and published in full only and by the client only. It shall be reproduced partially with the written permission of the Test Laboratory only.

TEST LABORATORY

TÜV NORD Mobilität GmbH & Co. KG
IFM - Institut für Fahrzeugtechnik und Mobilität,
Schönscheidtstr. 28, 45307 Essen
Germany

Designated Technical Service
Technical Service Number for NSAI: 115

Shanghai, October 26, 2024
Yu Yang / RT

B.S.M.E. Yu Yang



Ver.: 07/2021
Rev.: 01

Test Report
No. : CS055-B0-2024-05002
ECE Regulation No.55



Type :
Manufacturer :

List of modifications

Appendix 0

Correction of : --

Modification of : 1. Addition of trade name
2. Update of item 7.7. of information document
(No design change)
3. Update of Annex 3 - Drawing of Operating Instructions
4. Change of technical service to TUV NORD

Addition of : --

Deletion of : --

	Type:
	Information document No.: _____
	Extension date: October 25, 2024
	Pages: Page 1 of 9

**APPLICATION FOR TYPE APPROVAL PURSUANT
TO ECE REGULATION No. 55
RELATING TO MECHINAL COUPLING COMPONENTS OF
COMBINATIONS OF VEHICLES**

Component: Coupling Head

Type:

Total pages:

Signature of a responsible person:



Place: Jiangsu, China

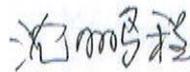
[Extension date: October 25, 2024](#)

	Type: †
	Information document No.: _____
	Extension date: <u>October 25, 2024</u>
	Pages: Page 2 of 9

Confirmation

We declare hereby that the specimen submitted for this approval test has been manufactured and assembled on conditions of ordinary mass production and that they are compatible with enclosed documentation.

Signature of a responsible person:



Place: Jiangsu, China

Date: October 25, 2024

		Type:
		<u>Information document No.:</u> _____
		<u>Extension date: October 25, 2024</u>
		Pages: Page 3 of 9

Extension reason:

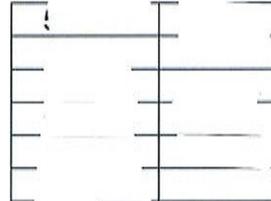
1. Addition of trade name
2. Update of item 7.7. of information document (No design change)
3. Update of Annex 3 - Drawing of Operating Instructions
4. Change of technical service to TUV NORD

1. Make (trade name of manufacturer) :

MAYPOLE:

2. Type:

2.1 Versions



3. Means of identification of type, if marked on the component/~~separate technical unit~~:

Rating Plate

3.1. Location of that marking:

Rating plate affixed to the surface

4. Name and address of manufacturer:

4.1. Name and address of authorized representative, if any:

N/A

5. Location and method of affixing of the approval mark:

Rating plate affixed to the surface
(Refer to Annex 1)

6. Address(es) of assembly plant(s):

7. Brief description:

The coupling head of type (See Annex 2) is a sheet steel metal forming component with two vertical attachment holes ready for mounting bolts M12 (quality 8.8, tightening torque 70 Nm), Self-locking nuts may only be used once! It is intended for use on central axle trailers with a permitted total axle load of 800 kg and coupling load of 75 kg. The coupling is supplied for a variety of designs with round, square connection. The statutory plate is stick onto the surface of housing. A heat treatment is used for enhancing strength. A synthetic coating is used for surface

		Type:
		Information document No.:
		Extension date: October 25, 2024
		Pages: Page 4 of 9

protection. Tow connecting bolts M12, nuts and washers are not part of delivery.

7.1	Type of device or component:	
7.2	Class of device or component:	Class , Non-standard 50 mm diameter coupling heads, fitted to the drawbar of trailers for connecting to the 50mm diameter coupling ball on the towing vehicle
7.3	Total mass of the coupling device:	
7.4	Main dimensions:	Refer to Annex 2
7.5	Characteristic values:	
7.5.1.	Primary values:	D/D _c =7.7 kN S= 75kg C= 800kg U= N/A V= N/A
7.5.2	Alternative values:	N/A
7.6	For Class A mechanical coupling devices or components, including towing brackets:	
7.6.1	Maximum permissible vehicle mass as declared by the vehicle manufacturer's:	N/A
7.6.2	Distribution of maximum permissible vehicle mass between the axles:	N/A
7.6.3	Vehicle manufacturer's maximum permissible towable trailer mass:	N/A
7.6.4	Vehicle manufacturer's maximum permissible static mass on coupling ball:	N/A
7.6.5	Maximum mass of the vehicle, with bodywork, in running order:	N/A
7.6.6	Loading condition under which the tow ball height of a mechanical coupling device fitted to category M ₁ vehicles is to be measured	N/A
7.7	For Class B coupling heads, is the coupling head intended to be fitted to an unbraked O ₁ trailer:	Yes/No
8	Details of the coupling device:	Refer to Annex 2
9	Instructions for the attachment of the coupling device or component type to the vehicle and photographs or drawings of the mounting points given by the vehicle	

		Type:
		Information document No.: (_____)
		Extension date: October 25, 2024
		Pages: Page 5 of 9

manufacturer: Refer to Annex 3 & 4

- 10 Information on the fitting of any special reinforcing brackets or plates or spacing components necessary for the attachment of the coupling device or component: N/A
- 11 Additional information where the use of the coupling device or component is restricted to special types of vehicles: N/A
- 12 For Class K hook type couplings, details of the drawbar eyes suitable for use with the particular hook type: N/A

ANNEX Drawing

- 1 Drawing of Location of Approval Mark
- 2 Drawing of assembly
- 3 Drawing of Operating Instructions
- 4 Sketch of the connection between coupling device and vehicle

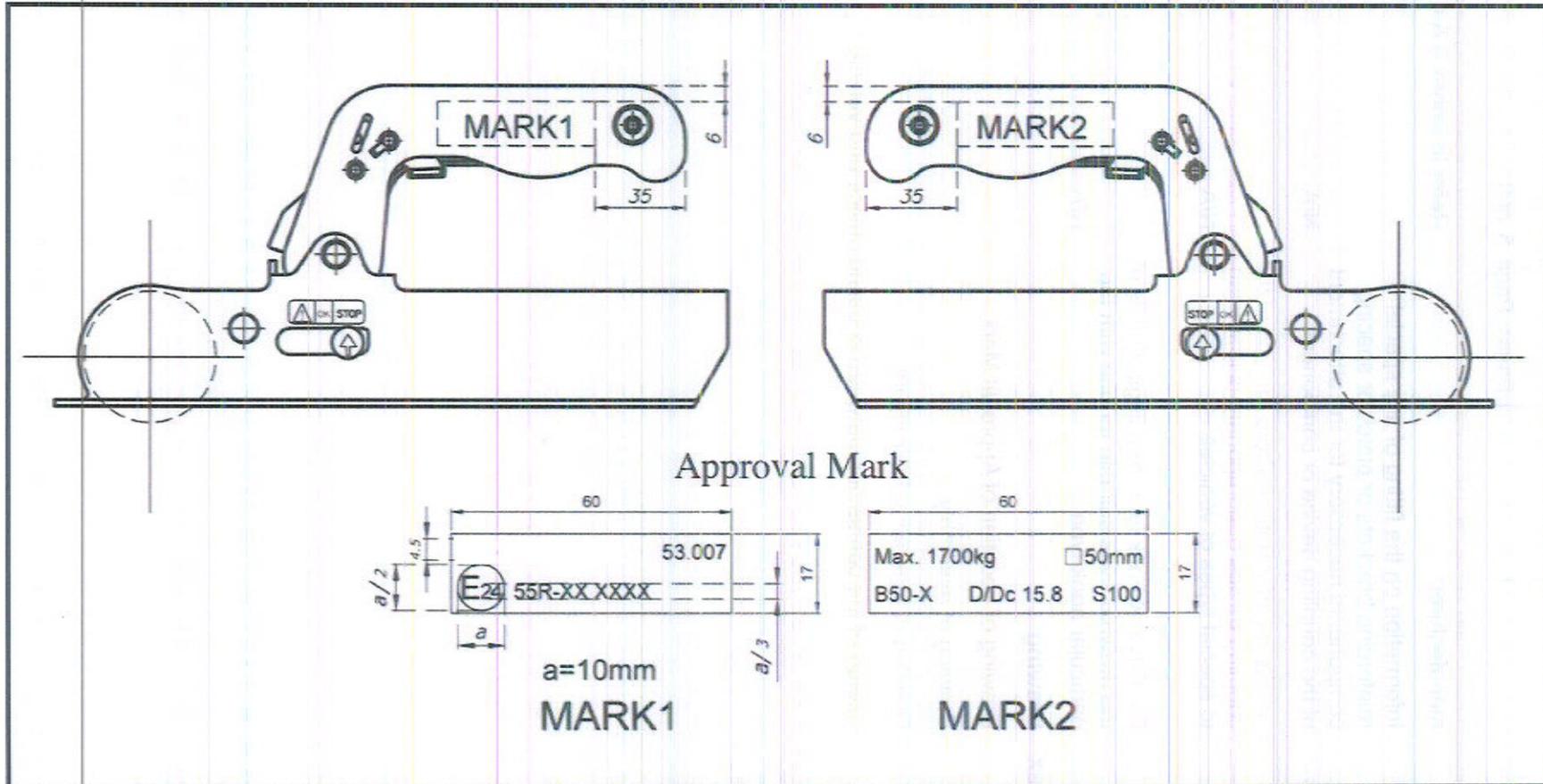
Type:

Information document No.: (

Extension date: October 25, 2024

Pages: Page 6 of 9

Annex 1: Drawing of Location of Approval Mark



	Type:
	Information document No.:
	Extension date: October 25, 2024
	Pages: Page 7 of 9

Annex 2: Drawing of Assembly

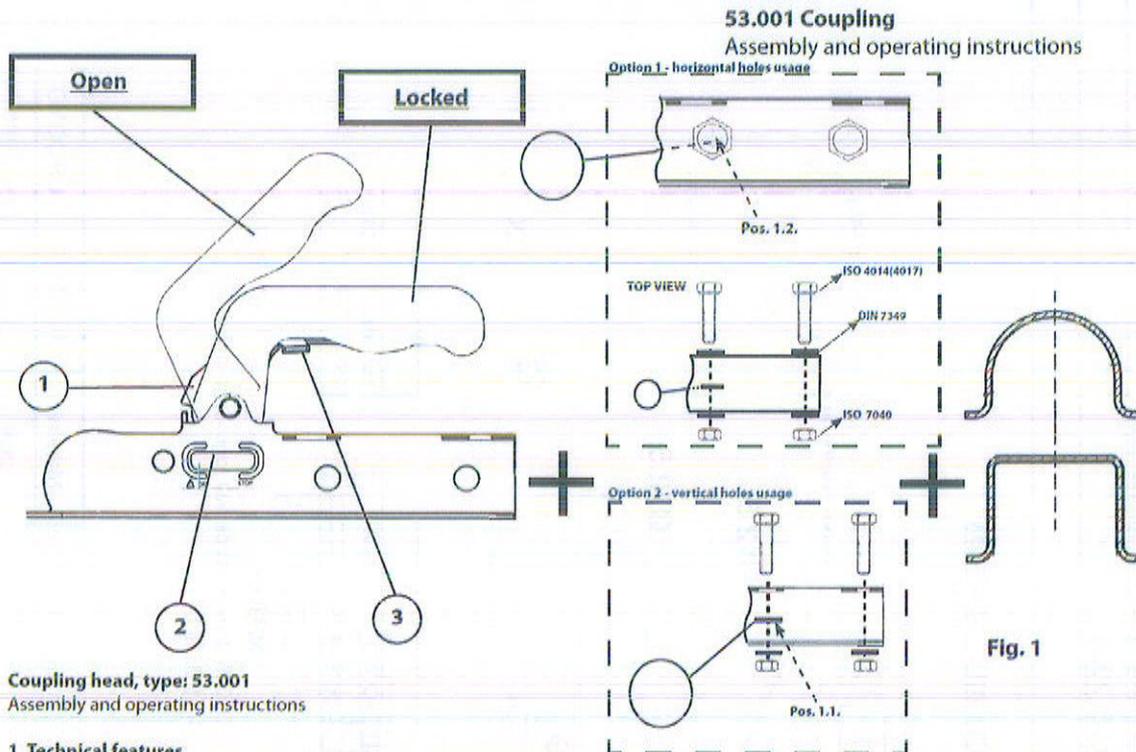
Type	Max. load capacity	D-Value	S-Value	Joint size, X	Variants
	kg	kN	kg	mm	
53.001	800	7.7	75	□50	53.001
53.001	800	7.7	75	Ø50	53.005
53.001	800	7.7	75	Ø60	53.006
53.001	800	7.7	75	□40	53.008
53.001	800	7.7	75	□60	53.009
53.001	800	7.7	75	□30	53.011
53.001	800	7.7	75	□45	53.012
53.001	800	7.7	75	□70	53.013
53.001	800	7.7	75	Ø35	53.014
53.001	800	7.7	75	Ø40	53.018
53.001	800	7.7	75	Ø45	53.019
53.001	800	7.7	75	Ø70	53.020

<p>MARK1 - used as default logo. Logo options: 1. <u>MAYPOLE</u></p>	<p>MARK2</p>
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Material	Thickness	
steel	2.5mm	Coupling Certification

	Type:
	Information document No.:
	Extension date: October 25, 2024
	Pages: Page 8 of 9

Annex 3: Drawing of Operating Instructions



Coupling head, type: 53.001
Assembly and operating instructions

1. Technical features

53.001 coupling heads are suitable for use on central axle trailers with a permitted total axle load up to 750 kg and coupling load of 75 kg. The coupling is supplied for a variety of designs with round, square connection. 53.001 has different variants. They are 53.001, 53.005, 53.006, 53.008, 53.009, 53.011, 53.012, 53.013, 53.014, 53.018, 53.019, 53.020, 53.501, 53.505, 53.506, 53.508, 53.509, 53.511, 53.512, 53.513, 53.514, 53.518, 53.519, 53.520

Warning! Warning! Warning!

All 53.001 series coupling heads are used for unbraked trailer up to 750 kg.

2. Assembly

Fig. 1: For type 53.001 prepare 2 x M12 hexagon head bolts, 4 x washer, 2 self locking nut. Screws and accessories are not included with the product. Install bolts to horizontal holes («Option 1» on Fig. 1). Manufacturer **recommended** to use «Option 1». Torque force for hexagon head bolts: Coupling head – drawbar pipe M12, 8.8 – 70Nm. Self-locking nuts(ISO 7040) may only be **used once!**

3. Operating Instructions

3.1 Coupling:

Place the open coupling on the coupling ball. The coupling closes and locks into place automatically by applying even downward pressure – the coupling load is usually adequate for this.

3.2 Visual inspection:

Correct connection of the ball coupling to the trailer can be checked as

- Nose of the securing lever must be visible on the operating hand lever (1) - The profiled rivet with arrow must be positioned in the (OK)-area of the display follows: of the slot on the side (2)

If the profiled rivet is outside the (OK)-area of the display: Check ball coupling seating and repeat coupling procedure, if necessary.

If the ball is worn (\varnothing 49 mm), the profiled rivet is positioned in the (STOP)-area of the display.

3.3 Uncoupling:

Release securing lever (3), tilt operating hand lever by pushing forwards and lift ball coupling off ball. Coupling remains in open position.

We recommend closing the ball coupling if not using for a longer period of time.

3.4 Maintenance:

All moving bearings and bolts are to be kept lightly oiled to ensure that the ball coupling functions perfectly.

3.5 General Instructions:

“Coupling the mechanical connection device to a vehicle must comply with Appendix VII of Directive 94/20/EC / ECE R55-01”.

How to read article: type of the coupling is 53.001, then last 3 numbers (example: 001) show's coupling-variant, in this example 001 is the variant.

Installation points of a secondary coupling device presented on Fig. 1(Pos. 1.2. for horizontal holes usage). One side of secondary coupling device should be fixed to the first bolt(marked with the arrow).

		Type:
		Information document No.:
		Extension date: October 25, 2024
		Pages: Page 9 of 9

Annex 4: Sketch of the connection between coupling device and vehicle

