

TEST REPORT

No. : SHIN2406001428CM02_EN

Date : 2024-07-08

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Scan to see the report


 SHIN2406001428CM02
 Verification:
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CUSTOMER NAME: ANHUI HAODING METAL PRODUCT LIMITED COMPANY
 ADDRESS: NO.32 GAOXIN ROAD, CHAHE ECONOMIC DEVELOPMENT
 ZONE, LAI'AN, ANHUI PROVINCE, CHINA

Sample Name : SWIVEL COUPLER
 Product Specification : 48.3MM
 Manufacturer : ANHUI HAODING METAL PRODUCT LIMITED COMPANY
 Buyer : Sinoma (Handan) Construction Co., Ltd.

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Date of Receipt : 2024-06-19
 Testing Period : 2024-06-19 ~ 2024-07-05
 Test result(s) : For further details, please refer to the following page(s)
 (Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
 SGS-CSTC Standards Technical
 Services (Shanghai) Co., Ltd.

王支援
 Authorized signatory



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Summary of Results:

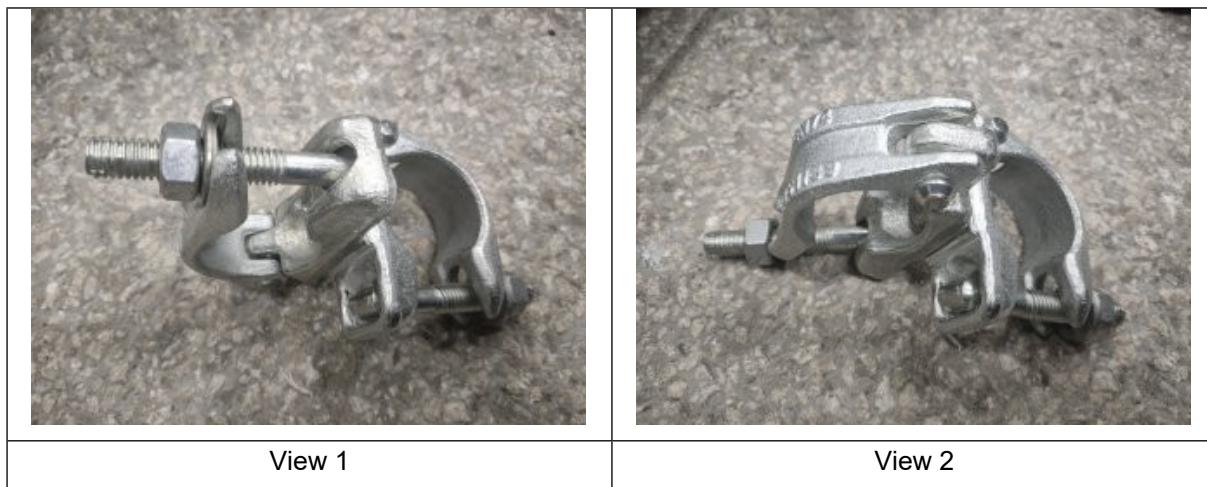
No.	Test Item	Test Method	Result	Conclusion
1	Slipping Force	EN 74-1:2022 Clause 7.2.1	See Result	Pass
2	Failure Force	EN 74-1:2022 Clause 7.2.2	See Result	Pass
3	Indentation	EN 74-1:2022 Clause 7.5	See Result	Pass

Note: Pass : Meet the requirements;

Fail : Does not meet the requirements;

N/A : Not Apply to the judgment.

Original Sample Photo(s):



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A circular red stamp with a five-pointed star in the center. The outer ring contains the text "SGS-CSTC 质量技术服务 (上海)有限公司" and the inner circle contains "检验检测专用章" and "Inspection & Testing Services".

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1. Test Item: Slipping Force

Test Method: EN 74-1:2022 Clause 7.2.1

Test Condition:

Specimen: Swivel coupler, Class A, 10pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022 Table 8	Conclusion
Slipping Force	$\Delta_1 \leq 7\text{mm}$, $F_{s,5\%} = 9.5\text{kN}$	$\Delta_1 \leq 7\text{mm}$, $F_{s,5\%} \geq 7.0\text{kN}$	Pass
	$F_s = 20.0\text{kN}$, $\Delta_2 < 1\text{mm}$	$1\text{mm} \leq \Delta_2 \leq 2\text{mm}$, $F_{s,5\%} \geq 10.0\text{kN}$	

Note:

- $F_{f,5\%}$: the 5% quantile for the 75% level of confidence.
- Specification of tube for slipping force: Steel tube of $\Phi 48.3\text{mm} \times 3.2\text{mm}$ (wall thickness)
- Please see Annex A for details of test results.



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Annex A Details of Test Results

Specimen No.	F_s (kN, $\Delta_1=7\text{mm}$)	F_s (kN, $1\text{mm} \leq \Delta_2 \leq 2\text{mm}$)
1	11.57	$F_s=20.0\text{kN}, \Delta_2<1\text{mm}$
2	10.32	$F_s=20.0\text{kN}, \Delta_2<1\text{mm}$
3	10.59	$F_s=20.0\text{kN}, \Delta_2<1\text{mm}$
4	10.95	$F_s=20.0\text{kN}, \Delta_2<1\text{mm}$
5	9.46	$F_s=20.0\text{kN}, \Delta_2<1\text{mm}$
6	10.79	$F_s=20.0\text{kN}, \Delta_2<1\text{mm}$
7	11.38	$F_s=20.0\text{kN}, \Delta_2<1\text{mm}$
8	12.00	$F_s=20.0\text{kN}, \Delta_2<1\text{mm}$
9	11.21	$F_s=20.0\text{kN}, \Delta_2<1\text{mm}$
10	11.51	$F_s=20.0\text{kN}, \Delta_2<1\text{mm}$
$F_{s,5\%}$	9.5	$F_s=20.0\text{kN}, \Delta_2<1\text{mm}$

Note: In accordance with EN 74-1:2022, the test can be ended when the test load reached twice the specified F_s given in Table 8 of EN 74-1:2022



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2. Test Item: Failure Force

Test Method: EN 74-1:2022 Clause 7.2.2

Test Condition:

Specimen: Swivel coupler, Class A, 5pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022 Table 8	Conclusion
Failure Force	$F_{f,5\%}/\gamma R2 = 25.7\text{kN}$	$F_{f,5\%}/\gamma R2 \geq 14.0\text{kN}$	Pass

Note:

- 1) $F_{f,5\%}$: the 5% quantile for the 75% level of confidence.
- 2) $\gamma R2=1.25$ according to EN 74-1.
- 3) Specification of steel bar for failure force: Steel bar of $\Phi 48.3\text{mm}$.
- 4) Please see Annex A for details of test results.

Annex A Details of Test Results

Specimen No.	F_f (kN)
11	36.13
12	35.57
13	36.65
14	33.09
15	36.21
$F_{f,5\%}/\gamma R_2$	25.7

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3. Test Item: Indentation

Test Method: EN 74-1:2022 Clause 7.5

Test Condition:

Specimen: Swivel coupler, Class A, 5pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022 Table 8	Conclusion
Indentation	$F=4.7\text{kN}$, $\Delta_{10}<1.5\text{mm}$	$F=4.7\text{kN}$, $\Delta_{10}\leq1.5\text{mm}$	Pass

Note:

1. Specification of tube for indentation: Steel tube of $\Phi48.3\text{mm}\times2.7\text{mm}$ (wall thickness).
2. Please see Annex A for details of test results.

Annex A Details of Test Results

Specimen No.	Δ_{10} (mm, $F=4.7\text{kN}$)
16	0.04
17	0.07
18	0.06
19	0.06
20	0.05

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*****End of report*****



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