

TEST REPORT

No. : GZIN2005024305CM
Date : Jun 10, 2020
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CUSTOMER NAME:
ADDRESS:

Sample Name : drop forged swivel coupler

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 : May 28, 2020

Testing Start Date : May 28, 2020

Testing End Date : Jun 10, 2020

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 Co., Ltd. GZ Branch Testing
Center

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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Slipping Force	EN 74-1:2005	See Result	Pass
2	Failure Force	EN 74-1:2005	See Result	Pass

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.

Original Sample Photo(s):



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Test Item: Slipping Force- Failure Force

Test Method: EN 74-1:2005

Sample Description: See photos

Test Condition:

Specimen: Swivel coupler, Class B, 20pcs

Test Results:

Test Clause	Test Item	Test Requirement (Swivel coupler, Class B)	Test Result	Conclusion
7.2.1	Slipping force	$\Delta L \leq 7\text{mm}$, $F_{L25} \geq 10.0\text{KN}$ $1\text{mm} \leq \Delta L \leq 2\text{mm}$, $F_{L50} \geq 15.0\text{KN}$	$\Delta L \leq 1\text{mm}$, $F_{L25} \geq 30.0\text{KN}$	Pass
7.2.2	Failure force	$F_{L25}/YR2 \geq 20.0\text{KN}$	$F_{L25}/YR2 = 34.3\text{KN}$	Pass

Note:

- F_{L25} , F_{L50} : the 5% quantile for the 75% level of confidence.
- $YR2=1.25$ according to EN 74-1.
- Specification of tube for slipping force: Steel tube of $\Phi 48.3\text{mm} \times 3.2\text{mm}$ (wall thickness).
Specification of steel bar for failure force: Steel bar of $\Phi 48.3\text{mm}$.
- Please see Annex A for details of test results.



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Annex A Details of test results

1. Slipping force

Sample No.	F_L (kN, $\Delta L \leq 7\text{mm}$)	F_L (kN, $1\text{mm} \leq \Delta L \leq 2\text{mm}$)
1	11.27	$\Delta L < 1\text{mm}$, $F_L = 30.0\text{KN}$
2	10.86	$\Delta L < 1\text{mm}$, $F_L = 30.0\text{KN}$
3	10.88	$\Delta L < 1\text{mm}$, $F_L = 30.0\text{KN}$
4	12.18	$\Delta L < 1\text{mm}$, $F_L = 30.0\text{KN}$
5	13.69	$\Delta L < 1\text{mm}$, $F_L = 30.0\text{KN}$
6	12.01	$\Delta L < 1\text{mm}$, $F_L = 30.0\text{KN}$
7	12.09	$\Delta L < 1\text{mm}$, $F_L = 30.0\text{KN}$
8	12.22	$\Delta L < 1\text{mm}$, $F_L = 30.0\text{KN}$
9	10.76	$\Delta L < 1\text{mm}$, $F_L = 30.0\text{KN}$
10	11.69	$\Delta L < 1\text{mm}$, $F_L = 30.0\text{KN}$
F_{L25}	10.0	/

Note: In accordance with EN 74-1:2005, the test can be ended when the test load reached twice the specified F_L given in Table 8 of EN 74-1:2005.

2. Failure force

Sample No.	F_L (kN)
11	47.36
12	48.50
13	44.41
14	49.27
15	47.15
$F_{L25}/YR2$	34.3

Appendix information. The above test was carried out by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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



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