> VVGSCH < > VMKS <

Safety instructions This safety instruction/declaration of the manufacturer

This safety instruction/declaration of the manufacturer has to be kept on file for the whole lifetime of the product and forwarded with the product.

Translation of the Original instructions

This user instruction is valid in addition to the safety instructions for RUD Sling chains, RUD Ref. No. 7101649



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VIP-Clevis Shackle

BRUD°

EG-Einbauerklärung

entsprechend der EG-Maschinenrichtlinie 2006/42/EG. Anhang II B und ihren Änderungen

Hersteller:

RUD Ketten Rieger & Dietz GmbH u. Co. KG Friedensinsel 73432 Aalen

Hiermit erklären wir, dass die nachfolgend bezeichnete unvollständige Maschine den grundlegenden Anforderungen der Maschinenrichtlinie 2006/42/EG (Anhang 1) entspricht. Die nachfolgend bezeichnete unvollständige Maschine darf, in der gelieferten Ausführung erst dann in Betrieb genommen werden, wenn festgestellt wurde, dass die Maschine, in diese unvollständige Maschine eingebaut werden soll, den Anforderungen der EG-Maschinenrichtlinie 2006/42/EG entspricht.

Produktbezeichnung: Gabelkopfschäkel

	IGSCH / VGSCH	
Folgende harmonisierten Nor	•	
	DIN EN 1677-1 : 2009-03	DIN EN ISO 12100 : 2011-03
Folgende nationalen Normen	und technische Spezifikationer	n wurden außerdem angewandt:
	DGUV-R 109-017 : 2020-12	
Folgende nationalen Normen		n wurden außerdem angewand

Die speziellen Unterlagen zur unvollständigen Maschine nach Anhang VII Teil B wurden erstellt und werden auf begründetes Verlangen in geeigneter Form übermittelt

Für die Zusammenstellung der Konformitätsdokumentation bevollmächtigte Person: Michael Betzler, RUD Ketten, 73432 Aalen

Aalen, den 01.06.2022

Hermann Kolb, Bereichsleitung MA Hermiam /

Name, Funktion und Unterschrift Verantwortlicher

BRUD°

EC-Mounting declaration

According to the EC-Machinery Directive 2006/42/EC, annex II B and amendments

Manufacturer:

RUD Ketten Rieger & Dietz GmbH u. Co. KG Friedensinsel 73432 Aalen

We hereby declare that the following incomplete machines correspond to the basic requirements of the Machinery Directive 2006/42/EC (annex 1). The following incomplete machine, in the delivered machine, may only be put into operation when the machine in which the incomplete machine shall be assembled, has been tested according to the requirements of the EC-Machinery Directive 2006/42/EC.

Product name:	Fool proof shackle	
	VV-GSCH / VMKS	
The following harmonized n	orms were applied:	
	DIN EN 1677-1 : 2009-03	DIN EN ISO 12100 : 2011-03
The following national norm	s and technical specifications w	vere applied:
	out the incomplete machine a be handed over in a suitable	
Authorized person for the co	onfiguration of the declaration d Michael Betzler, RUD Kette	

Aalen, den 01.06.2022 Hermann Kolb, Bereichsleitung MA — flerwühr / Name, function and signature of the responsible person

VVGSCH / VMKS



Please read user instruction carefully before initial operation of VIP clevis shackles.

Make sure to understand all volumes.

Non-observance of this user's manual can lead to serious physical injury and property

damage and eliminates warranty. In doubt or in misconception please note that the German version of this document

This user instruction is valid in addition to the safety instructions for RUD Sling chains, RUD Ref. No. 7101649.

1 Application and warning information



ATTENTION

is decisive.

Wrong assembled or damaged lifting means as well as improper usage can lead to physical injury and damage of property while failing.

Inspect lifting means before each use carefully!

- Keep all body parts like fingers, hands, arms, etc. out of the hazardous area during the lifting operation.
- Consider extreme circumstances or shock loading when choosing the utilised product.
- Side loading is due to the design not allowed.
- VIP clevis shackles must only be used considering the DGUV 109-017, and outside Germany acc. to the country specific requirements.
- Any technical modifications at the VIP clevis shackles are prohibited.

2 Intended use

VIP clevis shackles must only be used for the manufacturing / assembly of lifting means in combination with VIP chains and VIP components.

They can be used as an end component for chain slings or lugs. Side loading is not allowed.

VIP clevis shackles must only be used in the here described usage.

3 Installation and user information

3.1 General information

Capability of temperature usage:
 When used in temperatures higher than 200°C the
 WLL of the VIP clevis shackles must be reduced
 as follows:

-40°C up to 200°C no reduction
 - 200° up to 300°C minus 10 %
 - 300° up to 400°C minus 25 %

- Temperatures above 400°C are prohibited!

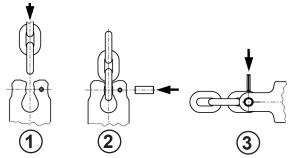
 VIP clevis shackles must not be used together with aggressive chemicals, acids and vapours.

3.2 Hints for the assembly

- VIP chains of the correct size can be directly assembled fool-proof into the RUD-clevis connection.
- Make sure before loading that the shackle bolt is fully engaged.
 - This is the case when the end of the shackle bolt at the thread is in line with the eye of the shackle and the bolt can be turned in the bushing easy.
- When shackle is permanently or more than once used, please secure bolt by using a hammer to punch the roller pin.

Common rule:

- Assemble only shackle components/connecting bolts with H1-10 embossment.
- The sleeve pin to secure the load pin must be assembled in such a way that the groove can be seen from the outside.
- · Use retaining pins only once.
- Use only original RUD spare parts.
- Check finally the correct assembly (see chapter 4 Inspection / Repair / Disposal).



Pic.1: Steps of assembly

3.3 Hints for the usage

 Control frequently and before each operation the total lifting mean in regard of ongoing ability, strong corrosion, wear, deformation etc. (see chapter 4 Inspection / Repair / Disposal).



ATTENTION

Wrong assembled or damaged lifting means as well as improper usage can result in serious physical injury and property damage when load drops.

Inspect lifting means before each use carefully!

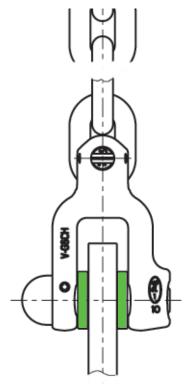
 Assemble the VIP clevis shackle at the load in such a way that the shackle body will be loaded in the longitudinal axle and that no bending stress occurs.



HINT

According to EN 13889 a side pull angle $\it ext{\it B}$ bigger than $\it ext{\it 7}^{\circ}$ is prohibited.

To avoid one-sided loading of the shackle, distance washers at both sides of the bolt are allowed to be used (see picture 2)



Pic. 2: VVGSCH with washers on both sides

- Alternatively a shackle with a smaller inside width can be used also. The inside width must not be reduced by using weld-in washers, distance parts or bending of the shackle because this has a negative impact to the mechanical properties of the shackle.
- · Leave hazardous area when possible.
- Watch always appended loads.
- Read for all lifting means the RUD sling chain Safety instructions.

4 Inspection / Repair / Disposal

4.1 Hints for the regularly inspection

The operator has to determine and dictate the necessary inspection periods and the deadlines by a risk assessment (see sections 4.2 and 4.3).

The persisting appropriateness of the lifting mean must be checked by a competent person (auditor) at least once per year.

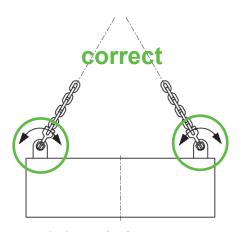
Depending on the conditions of use e.g. frequent use, increased wear or corrosion, it may be necessary to carry out inspections at shorter intervals than once per year. A verification is also required following damage and after special events. The operator must specify the test cycles.

4.2 Inspection criteria for the regularly examination carried out by the operator

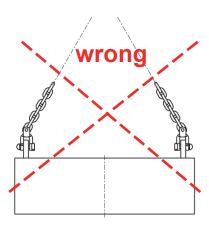
- · completeness of the VIP-Clevis Shackle
- · readable size and manufacturer sign
- mechanical damage like strong notches, especially in areas where tensile stress occurs
- Function, damage and wear at the securing sleeve pin, at the thread of the shackle pin and at the eye of the VV-GSCH shackle

4.3 Additional inspection criteria for the competent person resp. auditor

- Reduction of cross section caused by wear > 10 %, especially at the connection pin, the shackle pin and at the eye of the shackle.
- Strong corrosion
- Additional inspections may be necessary depending on the result of the risk assessment (e.g. incipient cracks at load bearing parts).



Pic 3: Correct loading



Pic 4: Wrong loading

4.4 Hints for repairing

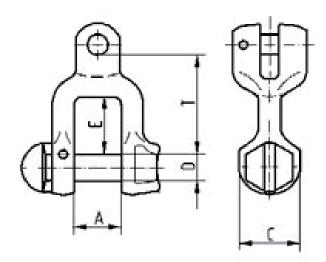
- Repairing must only be done by a competent person who has the knowledge and technical skills.
- Use only original RUD spare parts and register any made repairing in the lifting means file card of the complete chain sling or use the RUD BLUE-ID-System.

4.5 Disposal

Dispose worn out components / attachments or packaging according to the local waste removal requirements.

RUD components are designed according to DIN EN 818 and DIN EN 1677 for a dynamic load of 20,000 load cycles.

- Keep in mind that several load cycles can occur with a lifting procedure
- Keep in mind that, due to the high dynamic stress with high numbers of load cycles, that there is a danger that the product will be damaged
- The BG/DGUV recommends: For higher dynamic loading with a high number of load cycles (continuous operation), the working load stress must be reduced according to the driving mechanism group 1Bm (M3 in accordance with DIN EN 818-7). Use a lifting mean with a higher working load limit.



Туре	WLL [t]	ND [mm]	A [mm]	C [mm]	D [mm]	E [mm]	T [mm]	weight [kg/pc.]	Refno
VMKS-4	0.63	4	14	22	10	30	42	0.12	7985243
VVGSCH-6	1.5	6	17	22	10	21	36	0.15	7102022
VVGSCH-8	2.5	8	21	26	12	32	48	0.26	7102023
VVGSCH-10	4.0	10	27	34	16	35	61	0.65	7102024
VVGSCH-13	6.7	13	33	42	20	41	78	1.35	7102025
VVGSCH-16	10	16	38	49	24	49	96	2.5	7102026
VVGSCH-20	16	20	47	60	30	57	108	3.9	7104284
VVGSCH-22	20	22	53	76	36	72	132	6.7	7102027

Chart 1: Dimensioning

Subject to technical alterations