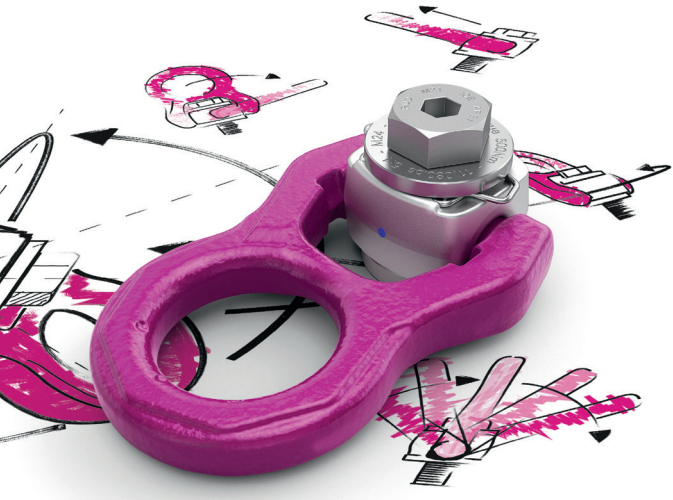
WLL TABLES

for lifting points & lifting means.



LIFTING POINTS – BOLTABLE

VRS-STARPOINT (VRS-F with wrench)

Type						
Number of strands		1	1	2	3 + 4	
Inclination angle < β		0°	90°	0–45° [1]	0–45° [1]	
Type	Thread size	Design factor 4:1 in tonnes				
VRS-F-0.1t	M6	0.5	0.1	0.14	0.21	
VRS-F-0.3t	M8	1	0.3	0.42	0.63	
VRS-F-0.4t	M10	1	0.4	0.56	0.84	
VRS-F-0.75t	M12 / M14	2	0.75	1	1.57	
VRS-F-1.5t	M16 / M18	4	1.5	2.1	3.15	
VRS-F-2.3t	M20 / M22	6	2.3	3.22	4.83	
VRS-F-3.2t	M24 / M27	8	3.2	4.5	6.7	
VRS-F-4.5t	M30 / M33	12	4.5	6.3	9.5	
VRS-F-7t	M36	16	7	9.8	14.7	
VRS-F-9t	M42	24	9	12.6	18.9	
VRS-F-12t	M48	32	12	16.8	25.2	
VRS-F-16t	M56	50	16	22.4	33.6	
VRS-F-20t	M64	60	20	28	42	

[1] For angles between 45°- 60°, the the WLL must be reduced by 30 %.
Note! Special thread possible! Variable thread lengths available.
In case of asymmetrical load distribution, a single lifting point must be able to bear the full load!



VRS

- Suitable for lifting, tilting and turning.
- Swivels 360°. Simple adjustment in load direction.
- Star profile key for tool-free assembly.

RUD RFID CONNECT IT

RUD ID-Point as standard

VLBG-PLUS

Type					
Number of strands		1	1	2	3 + 4
Inclination angle < β		0°	90°	0–45° [1]	0–45° [1]
Type	Thread size	Design factor 4:1 in tonnes			
VLBG-PLUS-0.63t	M8	0.63	0.63	0.88	1.32
VLBG-PLUS-0.9t	M10	0.9	0.9	1.3	1.9
VLBG-PLUS-1.35t	M12	1.35	1.35	1.9	2.84
VLBG-PLUS-2t	M16	2	2	2.8	4.25
VLBG-PLUS-3.5t	M20	3.5	3.5	4.9	7.35
VLBG-PLUS-4.5t	M24	4.5	4.5	6.3	9.5
VLBG-PLUS-6.7t	M30	6.7	6.7	9.5	14.1
VLBG-PLUS-7t	M36	7	7	9.8	14.7
VLBG-PLUS-8t	M36	8	8	11.2	17
VLBG-PLUS-10t	M42	10	10	14	21.2
VLBG-PLUS-15t	M42	15	15	21.2	31.5
VLBG-PLUS-20t	M48	20	20	28	42

[1] For angles between 45°- 60°, the the WLL must be reduced by 30 %.
Note! Special thread possible! Variable thread lengths available.
In case of asymmetrical load distribution, a single lifting point must be able to bear the full load!



VLBG-PLUS

- Suitable for lifting, tilting and turning.
- Swivels 360°. Simple adjustment in load direction.
- Lift bail can be pivoted up to load contact.
- Clamping spring holds the lift bail in position and achieves noise reduction.

RUD RFID CONNECT IT

RUD ID-Point as standard

LIFTING POINTS – BOLTABLE

ACP-TURNADO / MAX / SUPERMAX

Type					
Number of strands		1	1	2	3 + 4
Inclination angle < β		0°	90°	0–45° [1]	0–45° [1]
Type	Thread size	Design factor 4:1 in tonnes			
ACP-TURNADO					
ACP-0.7t	M8	0.7	0.7	0.98	1.47
ACP-1t	M10	1	1	1.4	2.1
ACP-1.35t	M12	1.35	1.35	1.9	2.84
ACP-2.5t	M16	2.5	2.5	3.5	5.25
ACP-4t	M20	4	4	5.6	8.4
ACP-6.3t	M24	6.3	6.3	8.8	13.2
ACP-8t	M30	8	8	11.2	17
ACP-TURNADO MAX					
ACP-12.5t	M36	15	12.5	17	26.5
ACP-16t	M42	18	16	22.4	33.6
ACP-20t	M48	25	20	28	42
ACP-24t	M52	26	24	33.6	50.4
ACP-27t	M56	32.5	27	38	57
ACP-TURNADO SUPERMAX					
ACP-32.5t	M64 – M100	35	32.5	46	69

[1] For angles between 45°- 60°, the the WLL must be reduced by 30 %.
Note! Special thread possible! Variable thread lengths available.
In case of asymmetrical load distribution, a single lifting point must be able to bear the full load!



ACP-TURNADO



ACP-TURNADO MAX



ACP-TURNADO SUPERMAX

- Suitable for lifting, tilting and turning.
- Swivels 360°. Automatic adjustment in load direction, no stopping of the lift bail, no shock-load possible.
- Lift bail can be pivoted up to load contact.
- ASME B30.26.

RUD RFID CONNECT IT

RUD ID-Point as standard

B-ABA

Type					
Number of strands		1	1	2	3 + 4
Inclination angle < β		0°	90°	0–45° [1]	0–45° [1]
Type	Thread size	Design factor 4:1 in tonnes			
B-ABA-1.6t	4 x M10	1.6	1.6	2.2	3.4
B-ABA-3.2t	4 x M12	3.2	3.2	4.5	6.8
B-ABA-5t	4 x M16	5	5	7.1	10.6
B-ABA-10t	4 x M20	10	10	14.1	21.2
B-ABA-20t	4 x M24	20	20	28	42
B-ABA-31.5t	4 x M30	31.5	31.5	45	67

Note! In case of asymmetrical load distribution, a single lifting point must be able to bear the full load!



B-ABA

- Can be loaded from all sides.
- Approved alternative to non-tested self-made solutions (self-made padeyes).
- No rattling noise or shaking even with strong vibrations.

RUD RFID CONNECT IT

RUD ID-Point as standard

LIFTING POINTS – BOLTABLE

VWBG-V / VWBG

Type					
Number of strands		1	1	2	3 + 4
Inclination angle < β		0°	90°	0–45° [1]	0–45° [1]
Type	Thread size	Design factor 4:1 in tonnes			
VWBG-V-0.3t	M8	0.6	0.3 (0.4)	0.42 (0.56)	0.63 (0.84)
VWBG-V-0.45t	M10	0.9	0.45 (0.6)	0.63 (0.84)	0.94 (1.26)
VWBG-V-0.6t	M12	1.2	0.6 (0.75)	0.84 (1)	1.26 (1.57)
VWBG-V-1t	M14	2	1 (1.25)	1.4 (1.75)	2.1 (2.62)
VWBG-V-1.3t	M16	2.6	1.3 (1.5)	1.82 (2.1)	2.73 (3.15)
VWBG-V-1.8t	M18	3.6	1.8 (2)	2.52 (2.8)	3.75 (4.25)
VWBG-V-2t	M20 / M22	4	2 (2.5)	2.8 (3.5)	4.25 (5.25)
VWBG-V-3.5t	M24 / M27	7	3.5 (4)	4.9 (5.6)	7.35 (8.4)
VWBG-V-5t	M30	10	5 (6)	7.1 (8.4)	10.6 (12.6)
VWBG-6 (7.5)t	M33	15	6 (7.5)	8.4 (10.5)	12.6 (15.75)
VWBG-8 (10)t	M36 / M39	15	8 (10)	11.2 (14)	17 (21.2)
VWBG-12 (13)t	M42 / M45	17	12 (13)	16.8 (18.2)	25.2 (27.3)
VWBG-12 (15)t	M45	18	12 (15)	16.8 (21.2)	25.2 (31.5)
VWBG-13 (16)t	M48 / M52	18	13 (16)	18.2 (22.4)	27.3 (33.6)
VWBG-14 (20)t	M52	25	14 (20)	19.6 (28)	29.4 (42)
VWBG-16 (22)t	M56 / M60	28	16 (22)	22.4 (30.8)	33.6 (46.2)
VWBG-16 (25)t	M64 / M72 / M76	28	16 (25)	22.4 (35)	33.6 (52.5)
VWBG-31.5 (40)t	M72 / M74 / M76	50	31.5 (40)	45 (56)	67 (84)
VWBG-35(48)t	M80 / M85	50	35 (48)	49 (67.2)	73.5 (100.8)
VWBG-40(50)t	M90–M160	50	40 (50)	56 (70)	84 (105)

[1] For angles between 45°- 60°, the the WLL must be reduced by 30 %.
() = Higher WLL by optimised attachment or application (figure 3).
Note! Special thread possible! Variable thread lengths available.
In case of asymmetrical load distribution, a single lifting point must be able to bear the full load!



VWBG-V



VWBG

- Suitable for lifting, tilting, turning and rotating (ball bearing).
- Swivels 360°. Simple adjustment in load direction.
- Lift bail can be pivoted up to load contact (max. 230°).

RUD RFID CONNECT IT

RUD ID-Point as standard







LIFTING POINTS – BOLTABLE

WBPG

Lifting point						
Number of strands		1	1	2	3 + 4	
Inclination angle < β		0°	90°	0–45° [1]	0–45° [1]	
Type	Thread size	Design factor 4:1 in tonnes				
WBPG-85t	6 x M48	85	85	119	178	
WBPG-100t	6 x M48	100	100	140	210	
WBPG-120t	6 x M48	120	120	168	252	
WBPG-200t	10 x M48	200	200	280	420	
WBPG-250t	10 x M48	250	250	350	525	

[1] For angles between 45°- 60°, the the WLL must be reduced by 30 %.
Note! In case of asymmetrical load distribution, a single lifting point must be able to bear the full load!



WBPG

- Suitable for lifting, tilting, turning and rotating (ball bearing).
- Swivels 360°. Simple adjustment in load direction.
- Lift bail can be pivoted up to max 180°.
- Detachable lift bail in shape of a shackle.

RUD RFID CONNECT IT
RUD ID-Point as standard

Please always follow the user instructions of RUD!
Please observe regular maintenance and inspection.
Pay attention to correct use.





The RUD configurators.

The right choice for any load.

- Huge selection with up to 1000 lifting points.
- Find the perfect lifting means for your applications in 6 easy steps.
- Free registration.

Further information can be found on our website and in our digital catalogues.

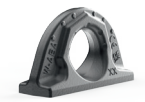
configuration.rud.com

slingandlashing.rud.com

LIFTING POINTS – WELDABLE

W-ABA

Type				
Number of strands	1	1	2	3 + 4
Inclination angle < β	0°	90°	0–45° [1]	0–45° [1]
Type	Design factor 4:1 in tonnes			
W-ABA-0.8t	2	0.8 (2)	1.12 (2.8)	1.7 (4.25)
W-ABA-1.6t	4	1.6 (4)	2.2 (5.6)	3.4 (8.4)
W-ABA-3.2t	9	3.2 (9)	4.5 (12.6)	6.7 (18.9)
W-ABA-5t	12	5 (12)	7.1 (16.8)	10.6 (25.2)
W-ABA-10t	20	10 (20)	14 (28)	21.2 (42)
W-ABA-20t	20	20	28	42
W-ABA-31.5t	31.5	31.5	45	67



W-ABA



INOX-ABA



G-ABA

INOX-ABA – stainless steel and corrosion-resistant.

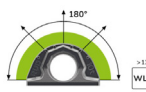
Type				
Number of strands	1	1	2	3 + 4
Inclination angle < β	0°	90°	0–45° [1]	0–45° [1]
Type	Design factor 4:1 in tonnes			
INOX-ABA-0.8t	3	0.8 (3)	1.12 (4.25)	1.7 (6.3)
INOX-ABA-1.6t	5	1.6 (5)	2.2 (7.1)	3.4 (10.6)
INOX-ABA-2.7t	7.5	2.7 (7.5)	3.8 (10.5)	5.7 (15.75)

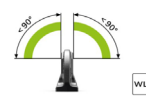
- Can be loaded from all sides.
- Approved alternative to non-tested self-made solutions (self-made padeyes).
- No rattling noise or shaking even with strong vibrations.
- Endless weld seam and circular fillet weld, therefore no contact/crevice corrosion.

- **INOX-ABA**: Made from Duplex steel 1.4462.

G-ABA– ideal for galvanisation and hot dip galvanising.

Type				
Number of strands	1	1	2	3 + 4
Inclination angle < β	0°	90°	0–45° [1]	0–45° [1]
Type	Design factor 4:1 in tonnes			
G-ABA-1t	3.5	1 (3.5)	1.4 (4.9)	2.1 (7.35)
G-ABA-2.5t	4	2.5 (4)	3.5 (5.6)	5.25 (8.4)
G-ABA-4t	6	4 (6)	5.6 (8.4)	8.4 (12.6)





[1] For angles between 45°- 60°, the the WLL must be reduced by 30 %.
( ) = WLL X in load ring plane.
Attention! In case of asymmetrical load distribution, a single lifting point must be able to bear the full load!

LIFTING POINTS – WELDABLE

VRBS-FIX

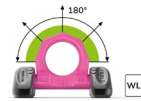
Type				
Number of strands	1	1	2	3 + 4
Inclination angle < β	0°	90°	0–45° [1]	0–45° [1]
Type	Design factor 4:1 in tonnes			
VRBS-FIX-4t	4	4	5.6	8.4
VRBS-FIX-6.7t	6.7	6.7	9.5	14.1
VRBS-FIX-10t	10	10	14	21.2
VRBS-FIX-16t	16	16	22.4	33.6
VRBS-FIX-31.5t	31.5	31.5	45	67
VRBS-FIX-50t	50	50	70	105
VRBS-FIX-100t	100	100	140	210

[1] For angles between 45°- 60°, the the WLL must be reduced by 30 %.
Attention! In case of asymmetrical load distribution, a single lifting point must be able to bear the full load!



VRBS-FIX

- Lift bail can be pivoted up to max 180°.
- No contact/ crevice corrosion: circular weld seam HY.
- WLL possible up to 90° in load ring plane.



VLBS-U

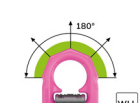
Type				
Number of strands	1	1	2	3 + 4
Inclination angle < β	0°	90°	0–45° [1]	0–45° [1]
Type	Design factor 4:1 in tonnes			
VLBS-U-1.5t	1.5	1.5	2.1	3.15
VLBS-U-2.5t	2.5	2.5	3.5	5.25
VLBS-U-4t	4	4	5.6	8.4
VLBS-U-6.7t	6.7	6.7	9.5	14.1
VLBS-U-10t	10	10	14	21.2
VLBS-U-16t	16	16	22.4	33.6

[1] For angles between 45°- 60°, the the WLL must be reduced by 30 %.
Attention! In case of asymmetrical load distribution, a single lifting point must be able to bear the full load!



VLBS-U

- Lift bail can be pivoted up to load contact
- WLL possible up to 90° in load ring plane.
- Lift bail can be adjusted to the chosen position with the integrated clamping spring.



RUD Ketten
Rieger & Dietz GmbH u. Co. KG

Friedensinsel
73432 Aalen, Germany

Phone: +49 7361 504-5438
E-mail: sling@rud.com
Web: slingandlashing.rud.com
www.rud.com

Made in Germany

LIFTING CHAINS – GRADE 8, 10, 12

WLL in [t] with symmetrical load

Lifting chains grade 8
Lifting chains VIP 100 grade 10
Lifting chains ICE 120 grade 12

8 10 12

		1-strand	2-strand		3 and 4-strand		2 x 2-leg balancer
							
Inclination angle < β		0	0-45°	> 45–60°	0-45°	> 45–60°	0-45°
Load factor		1	1.4	1	2.1	1.5	2.8
Nominal chain thickness	Grade						
4	VIP-10	0.63	0.88	0.63	1.32	0.95	–
4	ICE-12	0.8	1.12	0.8	1.7	1.18	–
6	GK-8	1.12	1.6	1.12	2.36	1.7	–
6	VIP-10	1.5	2.1	1.5	3.15	2.25	4.2
6	ICE-12	1.8	2.52	1.8	3.75	2.7	5.1
8	GK-8	2	2.8	2	4.25	3	–
8	VIP-10	2.5	3.5	2.5	5.25	3.75	7
8	ICE-12	3	4.25	3	6.3	4.5	8.4
10	GK-8	3.15	4.25	3.15	6.7	4.75	–
10	VIP-10	4	5.6	4	8.4	6	11.2
10	ICE-12	5	7.1	5	10.6	7.5	14.1
13	GK-8	5.3	7.5	5.3	11.2	8	–
13	VIP-10	6.7	9.5	6.7	14.1	10	19
13	ICE-12	8	11.2	8	17	11.8	22.6
16	GK-8	8	11.2	8	17	11.8	–
16	VIP-10	10	14	10	21.2	15	28
16	ICE-12	12.5	17	12.5	26.5	19	35.3
18	GK-8	10	14	10	21.2	15	–
20	GK-8	12.5	17	12.5	26.5	19	–
20	VIP-10	16	22.4	16	33.6	24	45
22	GK-8	15	21.2	15	31.5	22.4	–
22	VIP-10	20	28	20	42	30	56
26	GK-8	21.2	30	21.2	45	31.5	–
28	VIP-10	31.5	45	31.5	67 [1]	47.5 [1]	89
32	GK-8	31.5	45	31.5	67.5	47.5	–

[1] 2 x 2-leg version.

DGUV-R 109-017: When using multiple leg slings in an unsymmetrical lift the 1-leg WLL becomes valid. When choke hitch is applied the WLL has to be reduced by 20%!

ATTENTION! Before each use of sling chains mind the certifi cation stamp acc. to DIN EN 818, to avoid mixing of sling chains of different quality grades and non-proved chains.

Please consult the user instructions!

7907292