



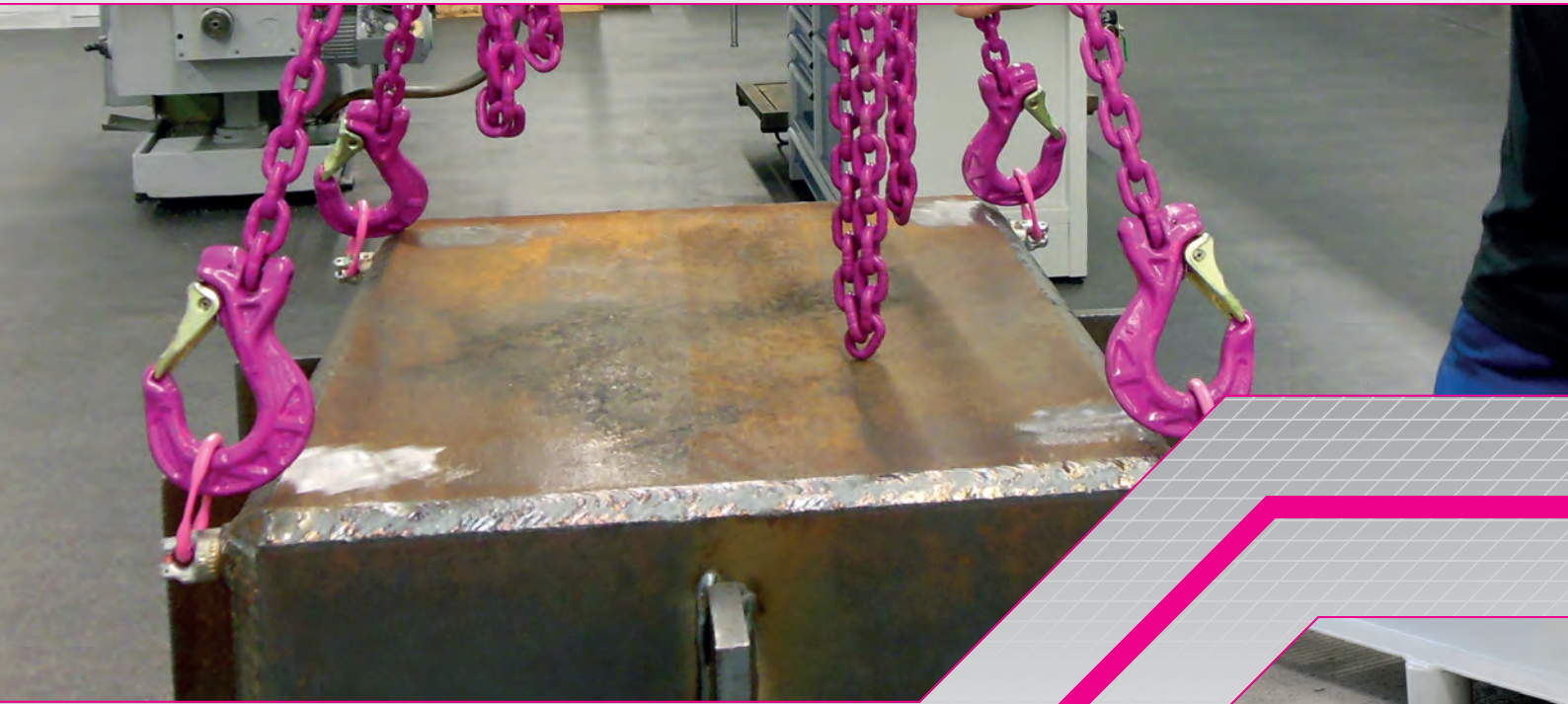
Tradition in Dynamic Innovation

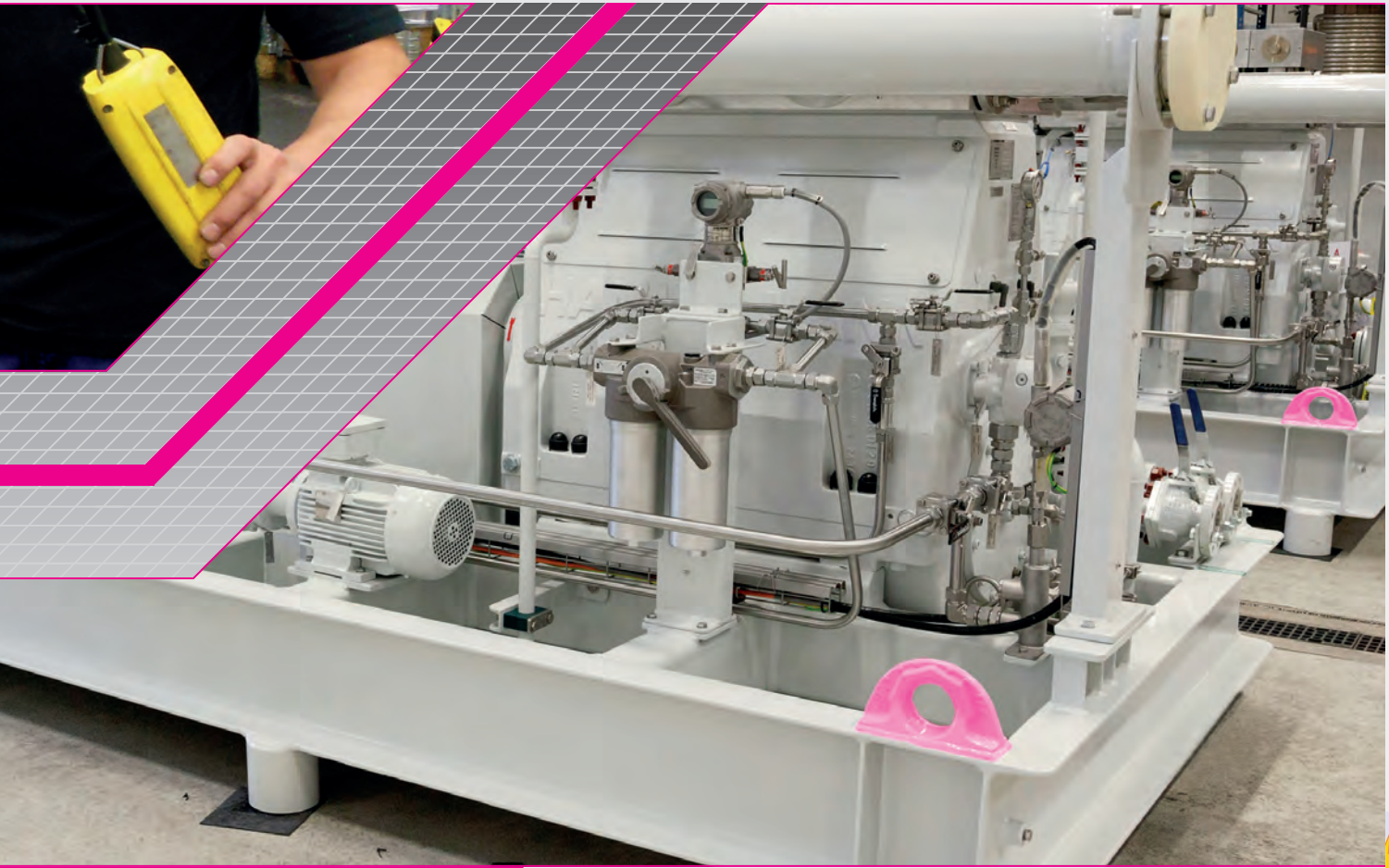


Lifting / Lashing Points

Edition 01 // EN

Professionally designed
for every construction





Lifting points ready for welding





WORKING LOAD LIMIT

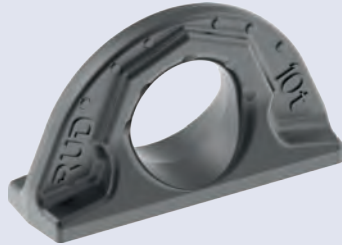
Maximum transport weight "G" in [t] with different lifting points

WLL 0.63 t – 8 t see p.136		PowerPoint / pivoting 360°			not pivoting			
								
		WPP-S / WPP-B / WPP-VIP			WPPH-S /H-B /H-VIP			
		S-Star / B-Ring connect. / VIP chain connect.			S-Star / B-Ring connect. / VIP chain connect.			
type		0.63 t	1.5 t	2.5 t	4 t	5 t	8 t	
weld seam		a 4 	a 5 	HY 3 + a 5 	HY 3 + a 6 	HY 3 + a 8 	HY 3 + a 10 	
	number of legs	β						
	1	0°	0.63	1.5	2.5	4	6.7	10
	2	0°	1.26	3	5	8	13.4	20
	1	90°	0.63	1.5	2.5	4	5	8
	2	90°	1.26	3	5	8	10	16
	2	0-45°	0.88	2.1	3.5	5.6	7	11.2
	2	45-60°	0.63	1.5	2.5	4	5	8
	2	unsymmetrical	0.63	1.5	2.5	4	5	8
	3+4	0-45°	1.32	3.15	5.25	8.4	10.5	16.8
	3+4	45-60°	0.95	2.25	3.75	6	7.5	12
	3+4	unsymmetrical	0.63	1.5	2.5	4	5	8

Higher WL () due to optimised attachment or usage (see product page).

LIFTING

Lifting points – ready for welding



ABA
Weldable lifting point
full load in all directions

WLL
1.6t–31.5t

see p.144



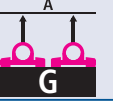
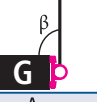
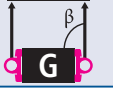

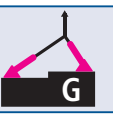
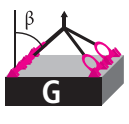
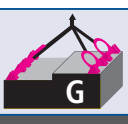
1.6t	3.2t	5t	10t	20t	31.5t	type	
a 4△	a 6△	a 7△	a 8△	a 12△	a 15△	weld seam	
						β	number of legs
1.6 (4)	3.2 (9)	5 (12)	10 (20)	20	31.5	0°	1
3.2 (8)	6.4 (18)	10 (24)	20 (40)	40	63	0°	2
1.6 (4)	3.2 (9)	5 (12)	10 (20)	20	31.5	90°	1
3.2 (8)	6.4 (18)	10 (24)	20 (40)	40	63	90°	2
2.2 (5.6)	4.5 (12.6)	7.1 (16.8)	14.1 (28)	28	45	0-45°	2
1.6 (4)	3.2 (9)	5 (12)	10 (20)	20	31.5	45-60°	2
1.6 (4)	3.2 (9)	5 (12)	10 (20)	20	31.5	unsym- metrical	2
3.4 (8.4)	6.8 (18.9)	10.6 (25.2)	21.2 (42)	42	67	0-45°	3+4
2.4 (6)	4.8 (13.5)	7.5 (18)	15 (30)	30	47.5	45-60°	3+4
1.6 (4)	3.2 (9)	5 (12)	10 (20)	20	31.5	unsym- metrical	3+4

Higher WL () due to optimised attachment
or usage (see product page).



WORKING LOAD LIMIT

Maximum transport weight "G" in [t] with different lifting points

<p>WLL 4t–100t see p.148</p>		 <p>VRBS-FIX VIP Load ring FIX weldable</p>						
type		4t	6.7t	10t	16t	31.5t	50t	100t
weld seam		HY 3	HY 5	HY 6	HY 9	HY 12	HY 19	HY 28
number of legs	β							
	1 0°	4	6.7	10	16	31.5	50	100
	2 0°	8	13.4	20	32	63	100	200
	1 90°	4	6.7	10	16	31.5	50	100
	2 90°	8	13.4	20	32	63	100	200
	2 0-45°	5.6	9.4	14	22.4	44.1	70	140
	2 45-60°	4	6.7	10	16	31.5	50	100
	2 unsymmetrical	4	6.7	10	16	31.5	50	100
	3+4 0-45°	8.4	14.1	21	33.6	66.2	105	210
	3+4 45-60°	6	10.1	15	24	47.3	75	150
	3+4 unsymmetrical	4	6.7	10	16	31.5	50	100

LIFTING

Lifting points – ready for welding



VRBK-FIX

VIP Load ring FIX for 90°-edges weldable

WLL
4 t – 50 t

see p.148

 VRBK-FIX VIP Load ring FIX for 90°-edges weldable					WLL 4 t – 50 t see p.148	
4 t	6.7 t	10 t	31.5 t	50 t *	type	
HY 4 + a 3	HY 5 + a 3	HY 8 + a 3	HY 17	HY 25	weld seam	
					β	number of legs
4	6.7	10	31.5	50	0°	1 
8	13.4	20	63	100	0°	2 
4	6.7	10	31.5	50	90°	1 
8	13.4	20	63	100	90°	2 
5.6	9.4	14	44.1	70	0-45°	2 
4	6.7	10	31.5	50	45-60°	2 
4	6.7	10	31.5	50	unsymmetrical	2 
8.4	14.1	21	66.2	105	0-45°	3+4 
6	10.1	15	47.3	75	45-60°	3+4 
4	6.7	10	31.5	50	unsymmetrical	3+4 

* without clamping effect



WORKING LOAD LIMIT

Maximum transport weight "G" in [t] with different lifting points

WLL 4 t–50 t see p.156		 VRBS VIP Load ring weldable					
type		4 t	6.7 t	10 t	16 t	31.5 t	50 t
weld seam		HY 4 + a 3 	HY 5.5 + a 3 	HY 6 + a 4 	HY 8.5 + a 4 	HY 18 + a 4 	HY 25 + a 8 
 number of legs	β						
		1	0°	4	6.7	10	16
 2	0°	8	13.4	20	32	63	100
 1	90°	4	6.7	10	26	31.5	50
 2	90°	8	13.4	20	32	63	100
 2	0-45°	5.6	9.4	14	22.4	44.1	70
	45-60°	4	6.7	10	16	31.5	50
 2	unsym- metrical	4	6.7	10	16	31.5	50
 3+4	0-45°	8.4	14.1	21	33.6	66.2	105
	45-60°	6	10.1	15	24	47.3	75
 3+4	unsym- metrical	4	6.7	10	16	31.5	50

LIFTING

Lifting points – ready for welding



VLBS
VIP Load ring for welding



LBS-RS
Load ring weldable stainless steel



WLL
0.5t–16t




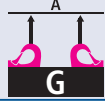


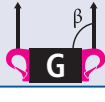
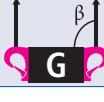

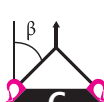

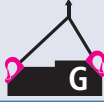
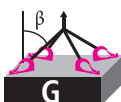
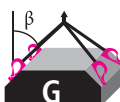
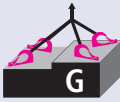
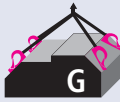
see p.160

VLBS						LBS-RS			WLL 0.5t–16t see p.160		
1.5t	2.5t	4t	6.7t	10t	16t	0.5t	1t	2t	type		
HV 5 + a 3	HV 7 + a 3	HV 8 + a 3	HV 12 + a 4	HV 16 + a 4	HV 25 + a 6	HV 4 + a 3	HV 7 + a 3	HV 12 + a 4	weld seam		
									β	number of legs	
1.5	2.5	4	6.7	10	16	0.5	1	2	0°	1	
3	5	8	13.4	20	32	1	2	4	0°	2	
1.5	2.5	4	6.7	10	16	0.5	1	2	90°	1	
3	5	8	13.4	20	32	1	2	4	90°	2	
2.1	3.5	5.6	9.5	14	22.4	0.7	1.4	2.8	0-45°	2	
1.5	2.5	4	6.7	10	16	0.5	1	2	45-60°	2	
1.5	2.5	4	6.7	10	16	0.5	1	2	unsymmetrical	2	
3.15	5.25	8.4	14	21	33.6	1.05	2.1	4.2	0-45°	3+4	
2.25	3.75	6	10	15	24	0.75	1.5	3	45-60°	3+4	
1.5	2.5	4	6.7	10	16	0.5	1	2	unsymmetrical	3+4	



WORKING LOAD LIMIT

Maximum transport weight "G" in [t] with different lifting points

WLL 1.5t–20t see p.168		 VABH-W VIP Excavator hook for welding				 VCGH-S VIP Excavator hook for welding			
type		1.5t	2.5t	4t	6.7t		10t	16t	20t
weld seam		a 4△	a 5△	a 6△	a 6△		a 8△	a 8△	a 8△
 number of legs	β					assembly VCGH-S ↓			
		1	0°	1.5	2.5		4	6.7	–
 2	0°	3	5	8	13.4	–	–	–	
 1	90°	1.5	2.5	4	6.7		10	16	20
 2	90°	3	5	8	13.4		20	32	40
 2	0-45°	2.1	3.5	5.6	9.4		14	22.4	28
	45-60°	1.5	2.5	4	6.7		10	16	20
 2	unsym- metrical	1.5	2.5	4	6.7		10	16	20
 3+4	0-45°	3.15	5.25	8.4	14		21	33.6	42
	45-60°	2.25	3.75	6	10		15	24	30
 3+4	unsym- metrical	1.5	2.5	4	6.7		10	16	20

LIFTING

Lifting points – ready for welding





WPP(H)-S // -B // -VIP

PowerPoint®-Star
for welding

Ring connection
for welding

VIP chain connection
for welding

WPP: rotating 360°, pivoting 230°

Universal, unmistakable VIP connection
for chain, hook and eye

WPP: double ball bearing for
rotating and turning actions

Universal connection with many attachment options





weldable universal hook connection for ring assemblies, round slings, wire ropes, hook assemblies

WPP-S

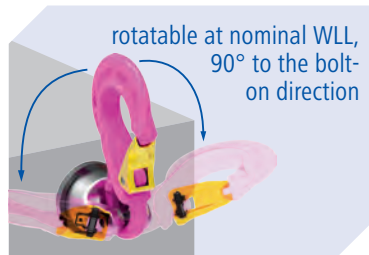
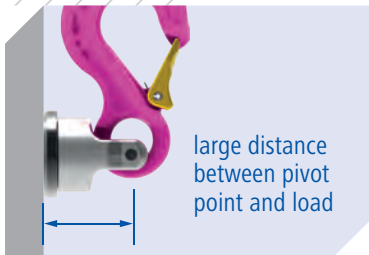
WPP-B

weldable ring connection for hook assemblies



WPP-VIP

weldable, direct VIP chain connection



Product features WPP(H)-S // -B // -VIP

WPP



WPPH



Can be combined with most commercial lifting means without additional connecting element.

WPP-S / WPP-B / WPP-VIP
 – **Double ball bearing** is the optimal solution for turning and flipping operations under full load.
 – **Lifting points pivots 360°**.
 – **Parallel to the weld-on surface under nominal WLL**.

Large distance between bolt-on surface and load to avoid damage.

Suspension ring with enlarged pivoting area.

WPPH-S / WPPH-B / WPPH-VIP:
Ideal connection link for crossbar construction.

WPP-VIP / WPPH-VIP: **Universal and non-mix-up clevis connection** for easy construction with chains, hooks and eye.

Lowest kinking possibility due to cardan joint.

Suspension ring with enlarged pivoting area.

Clear marking of the minimum WLL for all loading directions.

WPP(H)-S

PowerPoint®-Star for welding

-B

Ring connection
for hook assemblies

-VIP

VIP chain connection
for welding



WPP-S / WPPH-S



WPP-B / WPPH-B



WPP-VIP / WPPH-VIP

Differences between the WPP and the WPPH (not turnable). Regard the orientation of the hook, the ring connection and the chain.

For further information refer to the specific user instruction.

Product features / Application-specific features WPP(H)-S / -B / -VIP

- ✓ Requirements of the DIN 18800 are fulfilled by the weld arrangement (circular fillet weld), this means non occurrence of contact/crevice corrosion due to the endless weld seam (therefore suitable for outdoor constructions). The circular weld seam HY requires only a small welding volume.
- ✓ Compact design and high wear resistancy due to the usage of high tensile material.
- ✓ Material of weld-on-block 1.6541 (23MnNiCrMo52) (please observe user instruction).
- ✓ The WLL statement corresponds to the minimum WLL in all loading directions. Higher WLL possible when location and installation is optimised (compare WLL chart / product information).
- ✓ Significant product characteristics of the WPP-S, WPP-B, WPP-VIP, WPPH-S, WPPH-B and WPPH-VIP are subject to property right claims.

- ✓ Tested and certified by DGUV
Testing specifications:
GS-OA-15-04:2012-05

WPP
Certificate-No.: OA 1451023



WPPH
Certificate-No.: OA 1451022





- ✓ Simple and fast welding installation.

Other important RUD specific information and specialities to our RUD lifting points can be found on page 20 and in the specific user instruction (www.rud.com).






WPP-S / WPPH-S // technical data

Type	WLL [t]	weight [kg/pc.]	T [mm]	A [mm]	B [mm]	C [mm]	
WPPH-S – PowerPoint®-Star Universal connection for welding (turnable)							
	WPP-S 0.63t	0.63	0.4	115	13	75	18
	WPP-S 1.5t	1.5	1	147	20	97	25
	WPP-S 2.5t	2.5	1.5	187	28	126	30
	WPP-S 4t	4	3.3	227	36	150	35
	WPP-S 5t	5 (6.7)	7.1	267	37	174	40
	WPP-S 8t	8 (10)	8.2	310	49	208	48
WPPH-S – PowerPoint®-Star Universal connection for welding (not turnable)							
	WPPH-S 0.63t	0.63	0.35	109	13	75	18
	WPPH-S 1.5t	1.5	1	141	20	97	25
	WPPH-S 2.5t	2.5	1.4	179	28	126	30
	WPPH-S 4t	4	3.2	217	36	150	35
	WPPH-S 5t	5 (6.7)	7	253	37	174	40
	WPPH-S 8t	8 (10)	8	296	49	208	48

() = higher WLL at axial loading

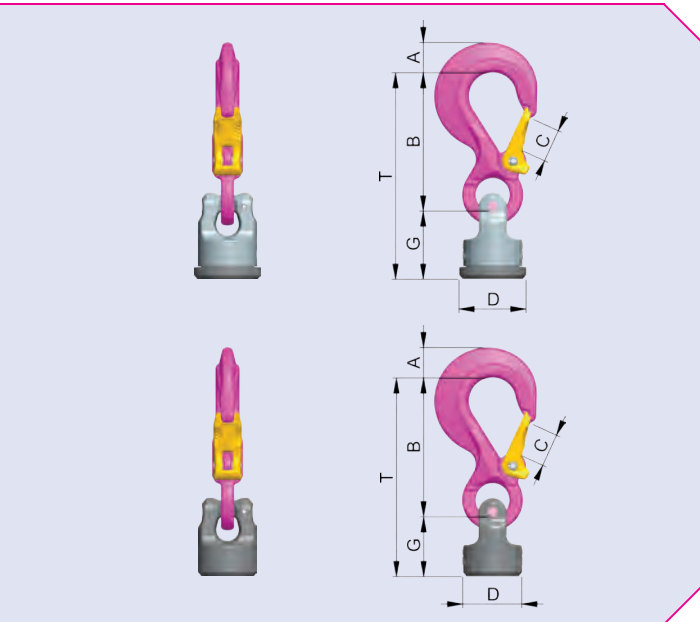
WPP-B / VWBS / WPPH-B // technical data

Type	WLL [t]	weight [kg/pc.]	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	
WPP-B – PowerPoint® Ring connection for hook assemblies weldable (turnable)								
	WPP-B 0.63t	0.63	0.35	105	9	65	35	40
	WPP-B 1.5t	1.5	0.6	115	11	65	35	46
	WPP-B 2.5t	2.5	1	135	13	74	40	61
	WPP-B 4t	4	2.3	172	16	95	45	78
	WPP-B 5t	5 (6.7)	4.7	223	19	130	60	95
	WPP-B 8t	8 (10)	5.3	242	24	140	65	100
VWBS – VIP Load Ring connection for welding, with ball bearing (turnable)								
	VWBS 40 (50)t	40 (50)	27.9	380	46	170	110	170
WPPH-B – PowerPoint® Ring connection for welding (not turnable)								
	WPPH-B 0.63t	0.63	0.25	99	9	65	35	34
	WPPH-B 1.5t	1.5	0.5	109	11	65	35	40
	WPPH-B 2.5t	2.5	0.9	137	13	74	40	53
	WPPH-B 4t	4	2.2	163	16	95	45	68
	WPPH-B 5t	5 (6.7)	4.5	209	19	130	60	83
	WPPH-B 8t	8 (10)	5.1	228	24	140	65	88

() = higher WLL at to axial loading

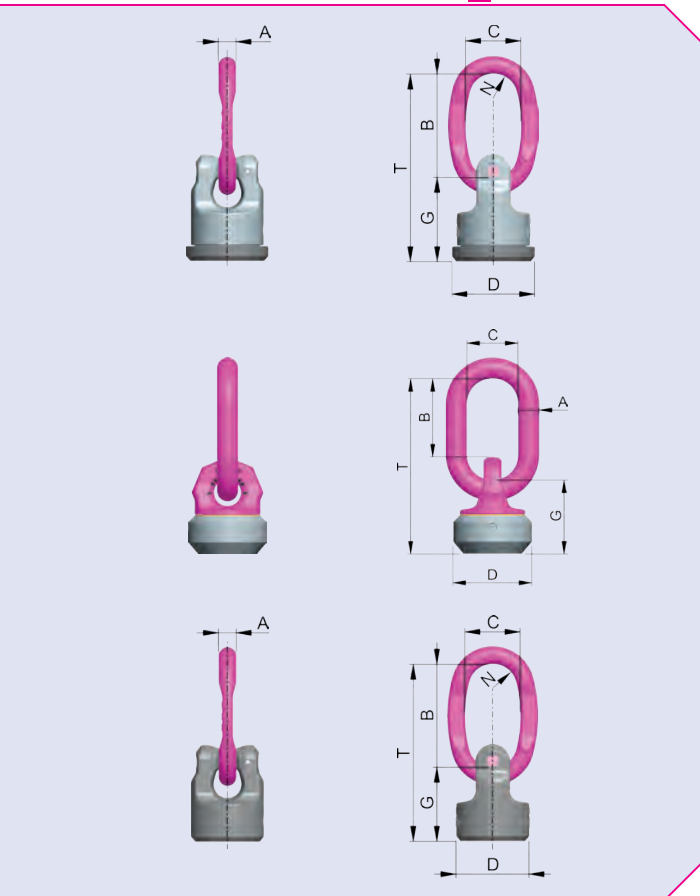
D [mm]	G [mm]	weld seam	Ref. No.
40	40	a 4 Δ	7990721
46	50	a 5 Δ	7989944
61	61	HY 3 + a 5 Δ	7989945
78	77	HY 3 + a 6 Δ	7989946
95	93	HY 3 + a 8 Δ	7989947
100	102	HY 3 + a 10 Δ	7989948
34	34	a 5 Δ	7990722
40	44	a 5 Δ	7989966
53	53	HY 3 + a 5 Δ	7989967
68	66	HY 3 + a 6 Δ	7989968
83	79	HY 3 + a 8 Δ	7989969
88	88	HY 3 + a 10 Δ	7989970

subject to technical modifications



D [mm]	G [mm]	weld seam	Ref. No.	Best.-Nr.
40	15	a 4 Δ	7989954	
50	15	a 5 Δ	7989955	
61	18	HY 3 + a 5 Δ	7989956	
77	20	HY 3 + a 6 Δ	7989957	
93	25	HY 3 + a 8 Δ	7989958	
102	28	HY 3 + a 10 Δ	7989959	
161	55	HY 22 + a 19 Δ	7903650	
34	15	a 4 Δ	7989976	
44	15	a 5 Δ	7989977	
53	18	HY 3 + a 5 Δ	7989978	
66	20	HY 3 + a 6 Δ	7989979	
79	25	HY 3 + a 8 Δ	7989980	
88	28	HY 3 + a 10 Δ	7989981	

subject to technical modifications



**WPP-VIP / VWBS-KA // technical data**

Type	WLL [t]	weight [kg/pc.]	T [mm]	A [mm]	D [mm]	
WPP-VIP – PowerPoint® VIP chain connection for welding (turnable)						
	WPP-VIP4-0.63t	0.63	0.23	41	4	40
	WPP-VIP6-1.5t	1.5	0.45	50	6	46
	WPP-VIP8-2.5t	2.5	0.85	61	8	61
	WPP-VIP10-4t	4	2.1	77	10	78
	WPP-VIP13-5t	5 (6.7)	3.4	93	13	95
	WPP-VIP16-8t	8 (10)	4.5	102	16	100
VWBS-KA – VIP Load ring with chain connection, for welding (turnable)						
	VWBS-KA-28-31,5t *	31.5	24	146	28	170

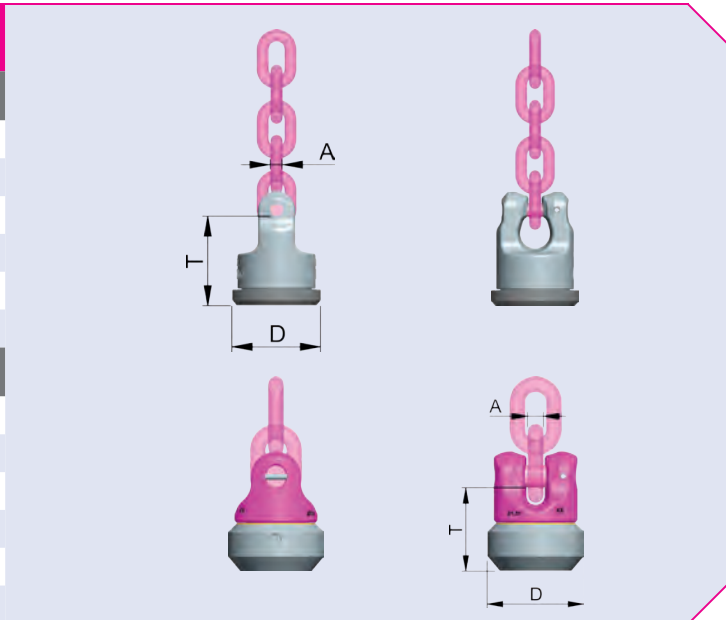
() = higher WLL at axial loading * = pivoting range: 180°

WPPH-VIP / WPPH-KA // technical data

Type	WLL [t]	weight [kg/pc.]	T [mm]	A [mm]	D [mm]	
WPPH-VIP – PowerPoint® VIP chain connection for welding (not turnable)						
	WPPH-VIP4-0.63t	0.63	0.2	34	4	34
	WPPH-VIP6-1.5t	1.5	0.35	44	6	40
	WPPH-VIP8-2.5t	2.5	0.75	53	8	53
	WPPH-VIP10-4t	4	2.0	66	10	68
	WPPH-VIP13-5t	5 (6.7)	3.1	79	13	83
	WPPH-VIP16-8t	8 (10)	4.3	88	16	88
WPPH-KA – PowerPoint® VIP chain connection for welding (not turnable)						
	WPPH-KA-28-31,5t *	31.5	11	74	28	148

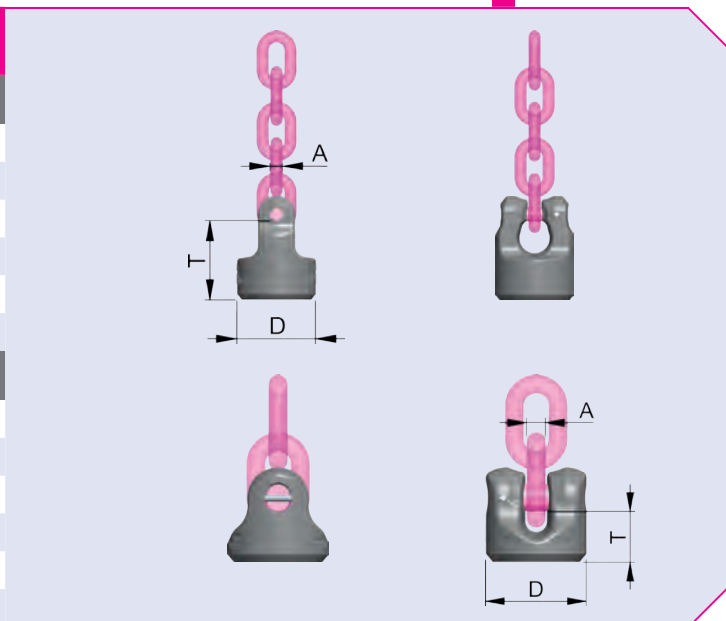
() = higher WLL at axial loading * = pivoting range: 180°

weld seam	Ref. No.
a 4 ▽	7989960
a 5 ▽	7989961
HY 3 + a 5 ▽	7989962
HY 3 + a 6 ▽	7989963
HY 3 + a 8 ▽	7989964
HY 3 + a 10 ▽	7989965
HY 22 + a19 ▽	7903440



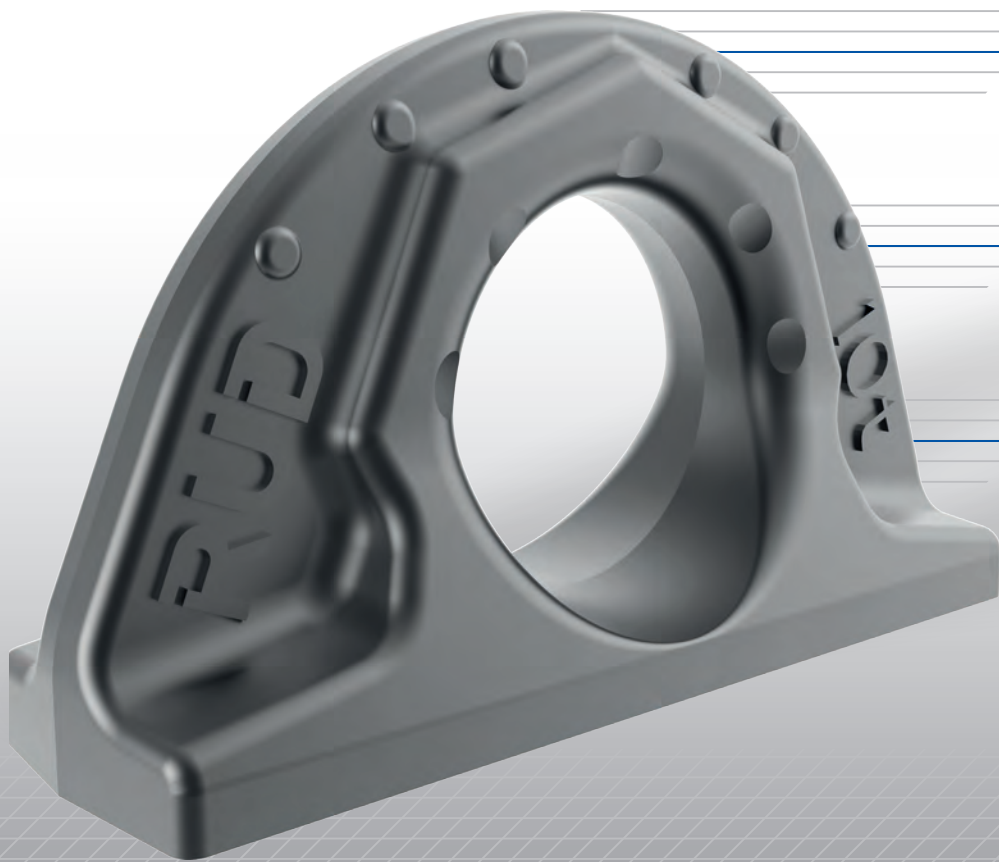
subject to technical modifications

weld seam	Ref. No.
a 4 ▽	7989982
a 5 ▽	7989983
HY 3 + a 5 ▽	7989984
HY 3 + a 6 ▽	7989985
HY 3 + a 8 ▽	7989986
HY 3 + a 10 ▽	7989987
HY 22 + a19 ▽	7903438



subject to technical modifications





ABA

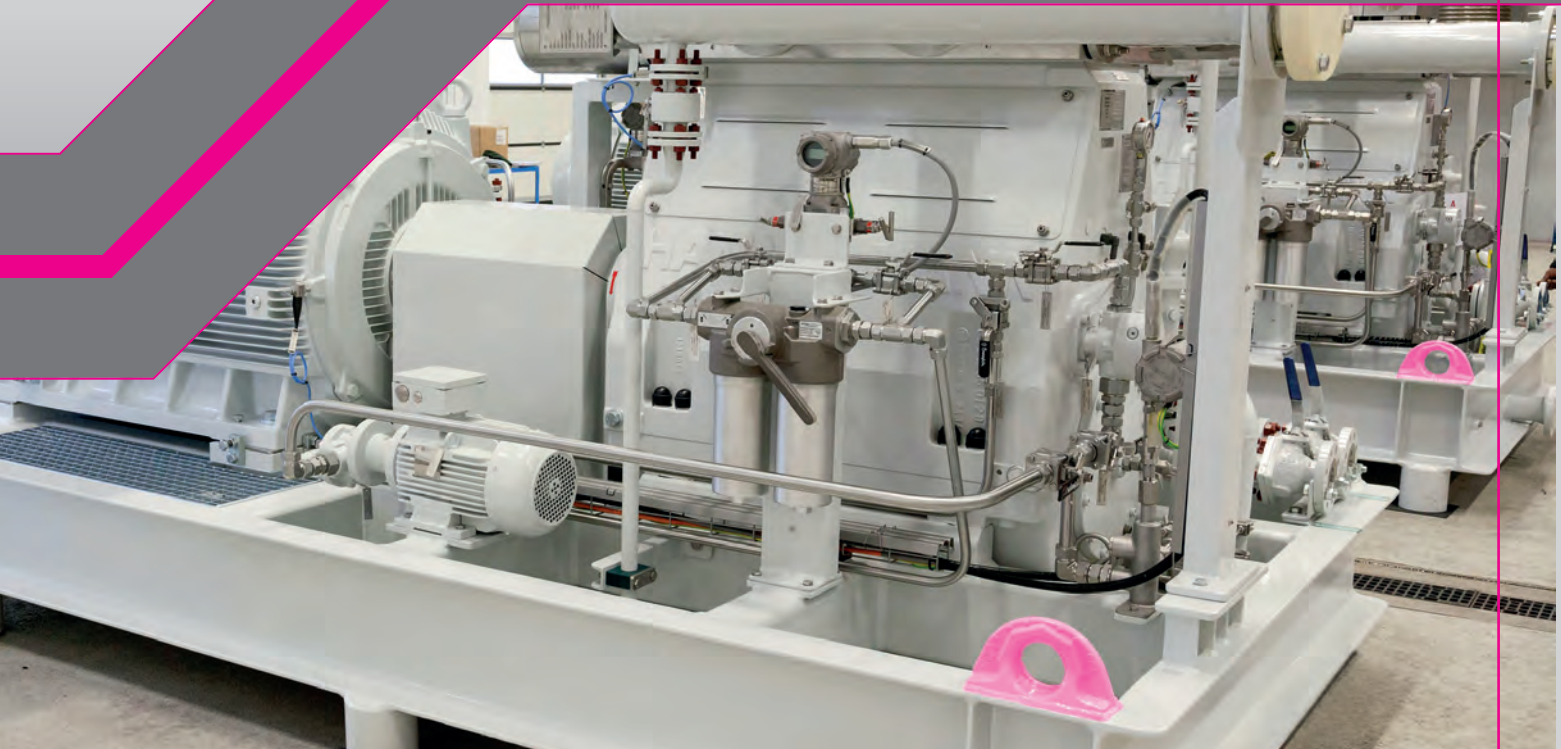
Weldable lifting point, full working load in all directions

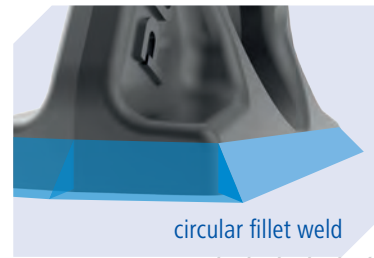
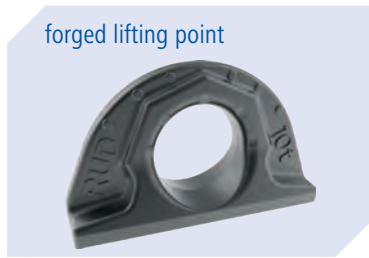
4:1 safety against breaking

Patented markings for easy
determination for withdraw of service

Tempered base body,
therefore wear-resistant

Ready and indestructible
– from all directions





Product features



ABA

Weldable lifting point, full working load in all directions

4:1



DGUV
Test

-40°C
200°C

400°C
max.

- ✓ **Forged**, no rattling noise or shaking even at strong vibrations or shock loads, simple connection of lifting means possible.
- ✓ **Clear marking of the minimum WLL** for all loading directions.

- ✓ **Requirements of the DIN 18800 are fulfilled by the weld arrangement (circular fillet weld)**, this means non occurrence of contact/crevice corrosion due to the endless weld seam (therefore suitable for outdoor constructions). Material of weld-on-block 1.6541 (23MnNiCrMo52) (please observe user instruction).

- ✓ Patented markings for easy determination for withdraw of service.

- ✓ Tested and certified by DGUV

Testing specifications:
GS-OA-15-04:2012-05
Certificate-Nr.: OA 1451020




- ✓ Phosphated surface.

- ✓ Significant product characteristics of the ABA are subject to property right claims.

Other important RUD specific information and specialities to our RUD lifting points can be found on page 20 and in the specific user instruction (www.rud.com).

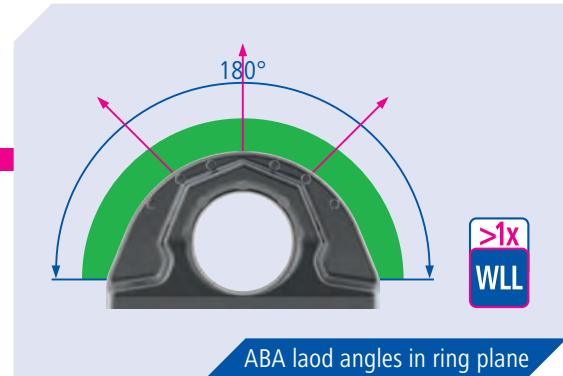
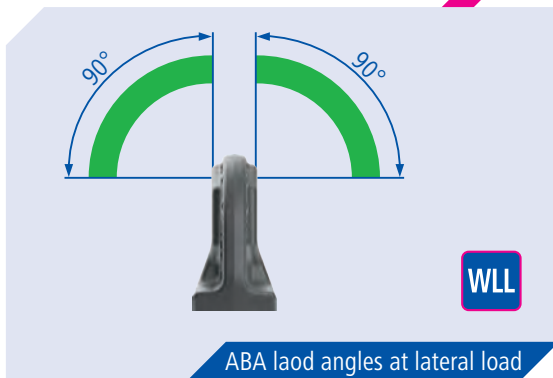
ABA // Technical Data

Type	WLL-X [t]	weight [kg/pc.]	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
ABA Weldable lifting point, full working load in all directions									
 ABA 1.6t	1.6 (4)	0.45	42	30	16	100	35	16	57
ABA 3.2t	3.2 (9)	1.15	59	41	23	137	50	21	80
ABA 5t	5 (12)	2.26	72	51	27	172	60	28	99
ABA 10t	10 (20)	5.37	95	70	38	228	80	35	130
ABA 20t	20	10.72	135	90	52	272	115	40	175
ABA 31.5t	31.5	18.33	154	108	64	320	130	50	204

() = higher WLL when loading in ring plane.

ABA

Weldable lifting point, full working load in all directions

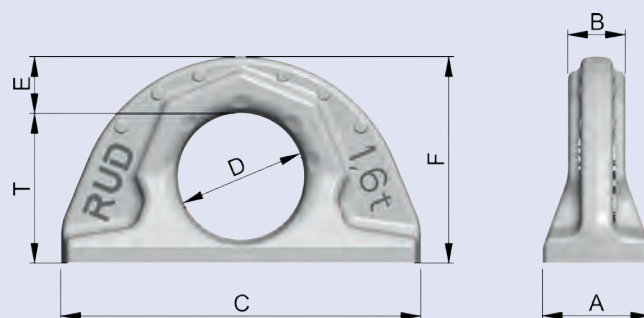


Please refer to the Working Load Limit chart on p.129.

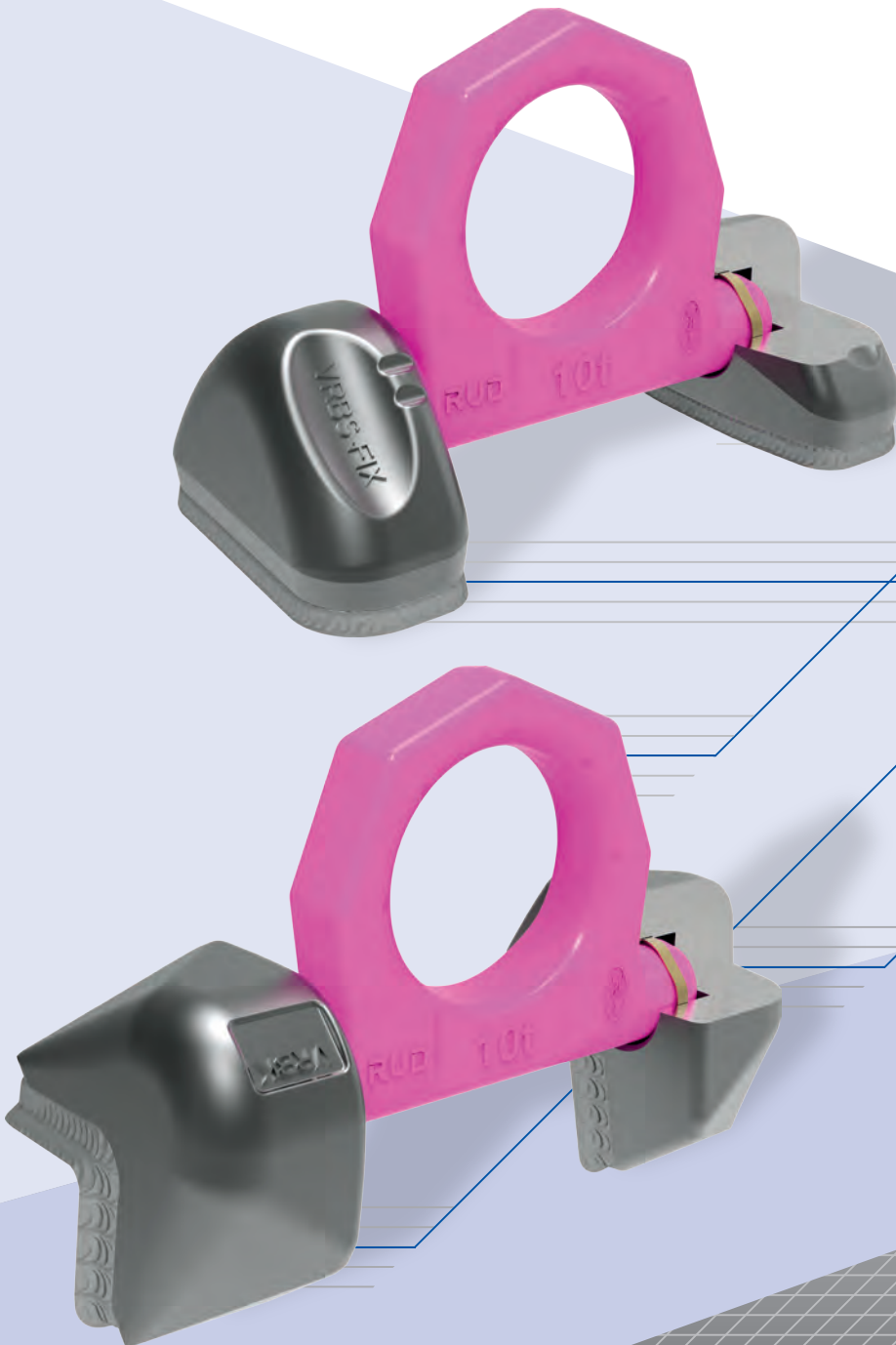
Application-specific features ABA

- ✓ Simple and fast welding installation.
- ✓ Confirmation of the low temperature ability to -40°C by the notch bar impact test is possible upon request (before order is placed).
- ✓ Appropriateness for hot dip galvanising after welding has to be analysed process related and liberised.
- ✓ The WLL statement corresponds to the minimum WLL in all loading directions. Higher WLL possible when location and installation is optimised (compare WLL chart / user instruction).

weld seam	Ref. No.
a 4 Δ	7900352
a 6 Δ	7900353
a 7 Δ	7900354
a 8 Δ	7900355
a 12 Δ	7902174
a 15 Δ	7902175



subject to technical modifications



VRBS-FIX

VIP Load ring FIX weldable

VRBK-FIX

VIP Load ring FIX weldable
for edges

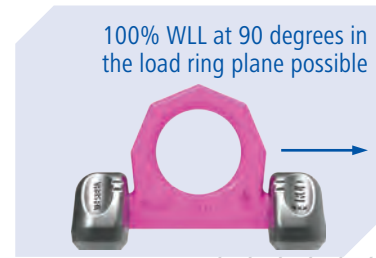
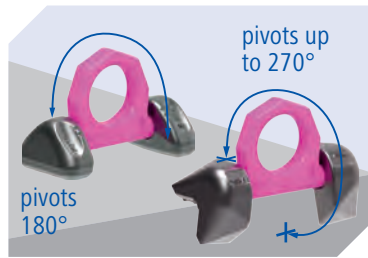
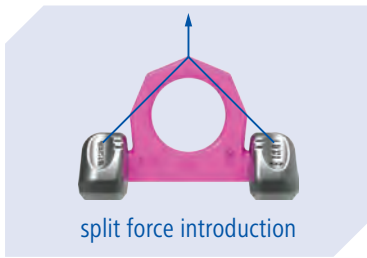
No complex leveling of the components to each other

No crevice corrosion:
endless HY weld seam

Clamping spring holds
all parts together

The perfect shared-force welding solution



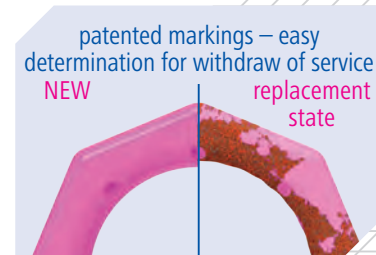
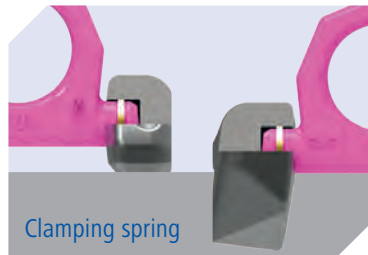


Ideal for use on edges – only half the number of lashing points needed.

VRBK-FIX

VRBS-FIX

The new VRBS-FIX with considerable improvements! Operable up to -40 °C.



Product features VRBS-FIX // VRBK-FIX



VRBS-FIX [



VRBK-FIX [



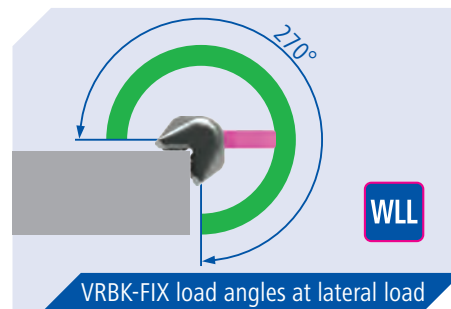
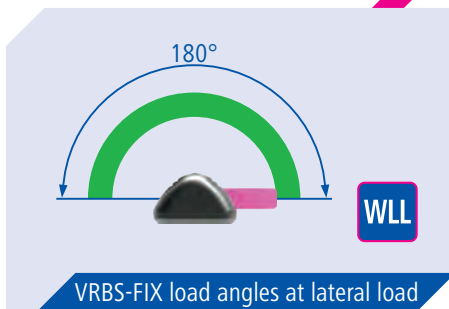
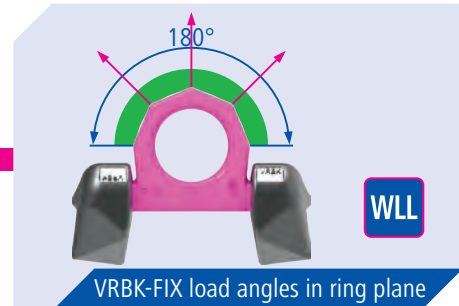
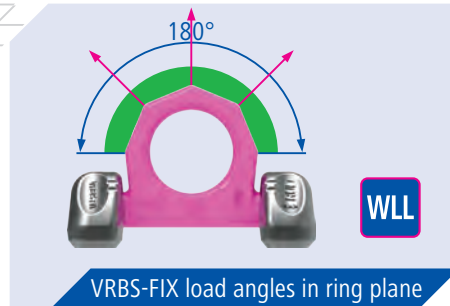
- ✓ Split force introduction due to multiple point fixing.
- ✓ VRBS-FIX: Suspension ring pivots 180°. VRBK-FIX: Suspension ring with enlarged pivoting area.
- ✓ 100% WLL at 90° in the load ring plane possible (up to 270°).
- ✓ Requirements of the DIN 18800 are fulfilled by the weld arrangement (circular fillet weld), this means non occurrence of contact/crevice corrosion due to the endless weld seam (therefore suitable for outdoor constructions). The circular weld seam HY requires only a small welding volume.
- ✓ Clamping spring works as a noise reduction and holds the suspension ring in the requested position; therefore simple hinge of lifting mean possible.
- ✓ Patented markings for easy determination for withdrawal of service. VRBS-FIX: patented markings for determination of the load angle.
- ✓ Simple and process safe positioning for the welding of pre-assembled components consisting of suspension ring and weld-on blocks.
- ✓ Clear marking of the minimum WLL for all loading directions.
- ✓ The weld-on-block is made (forged) out of a quality weldable steel.

VRBS-FIX

VIP Load ring FIX weldable

VRBK-FIX

VIP Load ring FIX for edges weldable



The VRBS-FIX and VRBK-FIX are being used at differing loading angles.
Please refer to the Working Load Limit chart on p.130.

Product features / Application-specific features VRBS-FIX / VRBK-FIX

- Tested and certified by DGUV
Testing specifications:
GS-OA-15-04:2012-05

VRBS-FIX
Certificate-No.: OA 1451018





VRBK-FIX
Certificate-No.: OA 1451019




- Significant product characteristics of the VRBS-FIX and VRBK-FIX are subject to property right claims.
- Simple and fast welding installation.
- Confirmation of the low temperature ability to -40°C by the notch bar impact test is possible upon request (before order is placed).

Other important RUD specific information and specialities to our RUD lifting points can be found on page 20 and in the specific user instruction (www.rud.com).

**VRBS-FIX / VRBK-FIX // technical data**

Type	WLL [t]	weight kg/pc.	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
VRBS-FIX – Load ring FIX with all around welding seam									
 VRBS-FIX 4t	4	0.94	74	60	14	39	48	132	69
VRBS-FIX 6.7t	6.7	2.24	97	88	20	50	60	167	91
VRBS-FIX 10t	10	3.72	108	100	22	60	65	191	100
VRBS-FIX 16t	16	8.23	140	130	30	72	90	267	134
VRBS-FIX 31.5t	31.5	18.36	202	160	42	99	130	366	195
VRBS-FIX 50t	50	64.86	330	246	70	148	230	596	335
VRBS-FIX 100t	100	126.85	390	320	97	195	250	763	392
VRBK-FIX – Load ring FIX for 90°-edges with all around welding seam									
 VRBK-FIX 4t	4	1.05	65	32	14	28	48	140	29
VRBK-FIX 6.7t	6.7	2.16	84	40	20	35	60	180	33
VRBK-FIX 10t	10	4.40	94	52	22	46	65	212	46
VRBK-FIX 31.5t	31.5	24.84	177	89	42	78	130	394	70
VRBK 50t	50	76.35	303	133	70	118	230	626	96

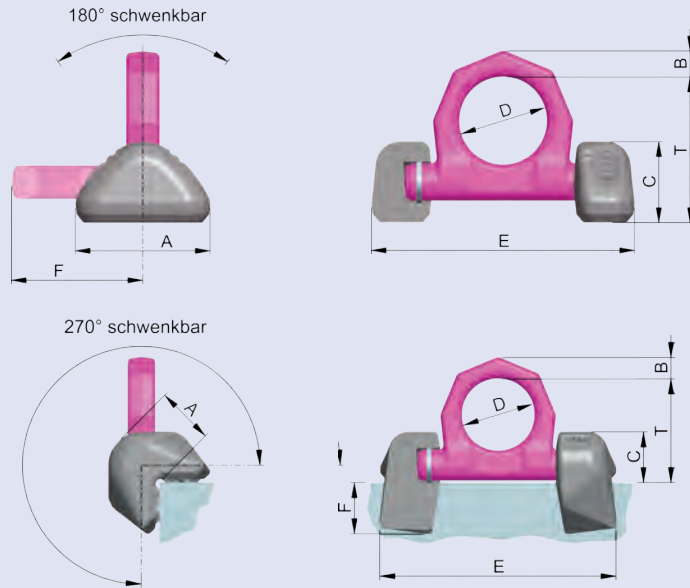
VRL-FIX Load ring // technical data

Type	WLL [t]	weight kg/pc.	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
VRL-FIX Load ring									
 VRL-FIX 4t	4	0.37	55	103	14	69	48	15	18
VRL-FIX 6.7t	6.7	0.90	71	130	20	91	60	21	23
VRL-FIX 10t	10	1.44	78	147	22	100	65	26	29
VRL-FIX 16t	16	2.0	104	196	30	134	90	32	37
VRL-FIX 31.5t	31.5	8.48	152	284	42	194	130	43	47

welding
seam

Ref. No.

HY 3	7999019
HY 5	7999020
HY 6	7999021
HY 9	7999301
HY 12	7999302
HY 19	7906272
HY 28	7906273
HY 4 + a 3 Δ	7902149
HY 5 + a 3 Δ	7902150
HY 8 + a 3 Δ	7902256
HY 17	7906225
HY 25	7904653

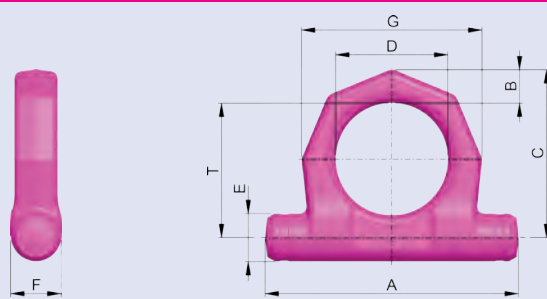


subject to technical modifications

G
[mm]



Ref. No.

76	7999022
99	7999023
105	7999024
146	7999294
214	7999296

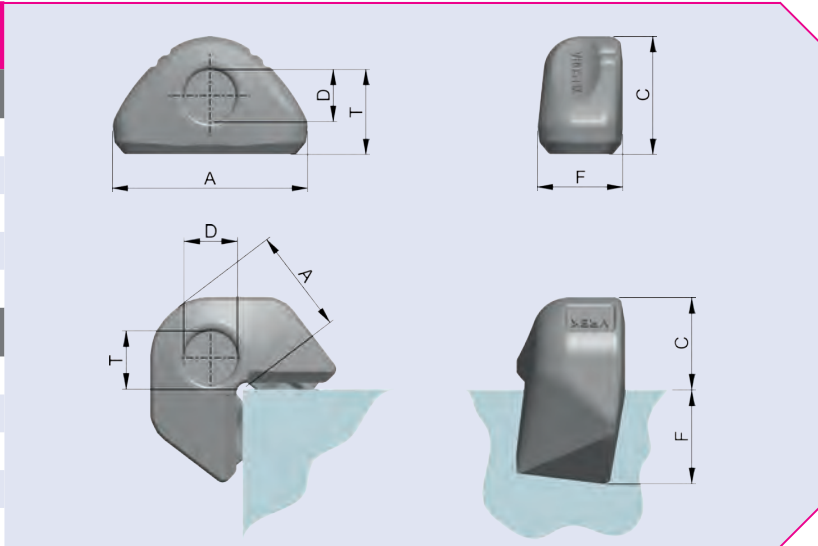


subject to technical modifications

**VRBS-FIX / VRBK-FIX / weld-on block // technical data**

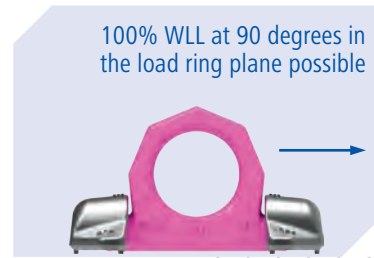
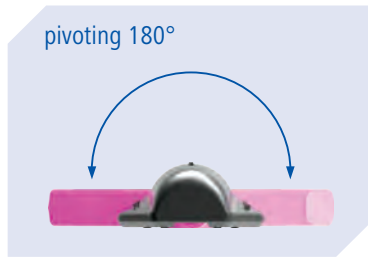
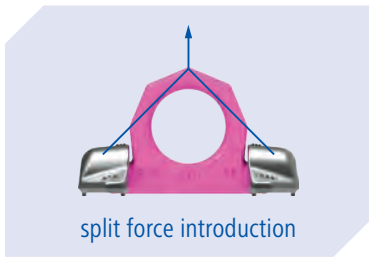
Type	WLL [t]	weight kg/pc.	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
VRBS-FIX – weld-on block									
	VASK-FIX 4t	4	0.28	27	29	38	15.5		60
	VASK-FIX 6.7t	6.7	0.63	37	34	52	21.5		88
	VASK-FIX 10t	10	1.15	43	44	60	26.5		100
	VASK-FIX 16t	16	2.43	52	62	72	33		130
	VASK-FIX 31.5t	31.5	4.93	71	76	99	44		160
VRBK-FIX – weld-on block									
	VASKK-FIX 4t	4	0.33	17.5	32	28	15.5		30
	VASKK-FIX 6.7t	6.7	0.61	23.5	40	35	21.5		34
	VASKK-FIX 10t	10	1.5	29	52	46	26.5		46

welding seam	Ref. No.
HY 3	7999025
HY 5	7999026
HY 6	7999027
HY 9	7999290
HY 12	7999291
HY 4 + a 3 Δ	7901699
HY 5 + a 3 Δ	7901700
HY 8 + a 3 Δ	7901701



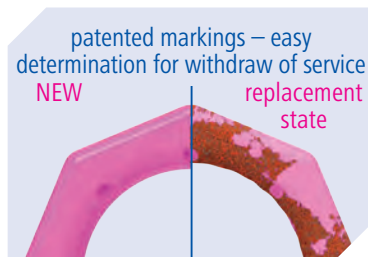
subject to technical modifications





VRBS

Load ring weldable with split force introduction.



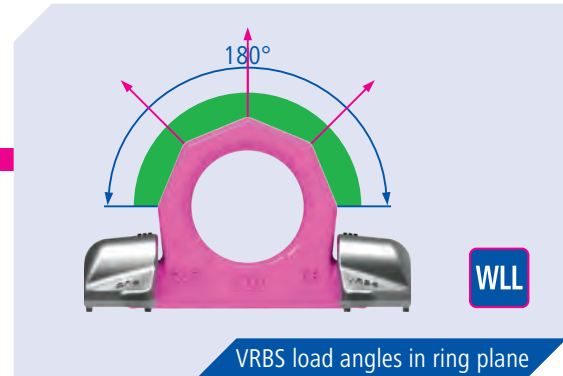
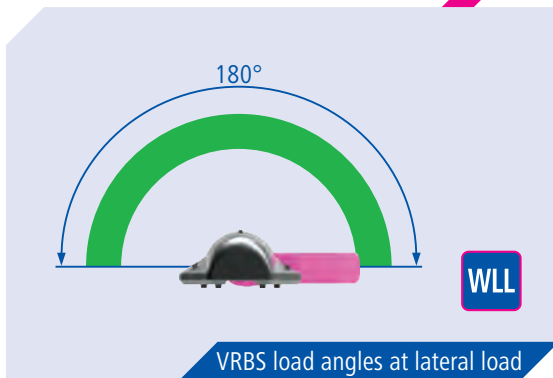
Product features VRBS



- ✓ **Split force introduction** due to multiple point fixing.
- ✓ **Suspension ring pivots 180°.**
- ✓ **100% WLL at 90° in the load ring plane possible.**
- ✓ **Clear marking of the minimum WLL for all loading directions.**
- ✓ **Patented markings for easy determination for withdraw of service.**
Distance knobs at the weld-on block to achieve the
- ✓ necessary distance for the root weld.
- ✓ The weld-on-block is made (forged) out of a good weldable steel.
- ✓ Component according to the test criterias of BG/ DGV "GS-OA-15-04"
- ✓ Confirmation of the low temperature ability to -40°C

VRBS

VIP Load ring weldable



Please refer to the Working Load Limit chart on p.132.

Application specific features VRBS

- ✓ by the notch bar impact test is possible upon request (before order is placed).

Other important RUD specific information and specialities to our RUD lifting points can be found on page 20 and in the specific user instruction (www.rud.com).



VRBS // technical data

Type	WLL [t]	weight kg/pc.	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
VRBS – Load ring									
VRBS 4t	4	0.8	65	62	14	28	48	135	71
VRBS 6.7t	6.7	1.6	84	88	20	39	60	170	92
VRBS 10t	10	3.0	95	100	22	46	65	195	100
VRBS 16t	16	6.6	127	130	30	57	90	263	134
VRBS 31.5t	31.5	15.6	178	160	42	79	130	375	195
VRBS 50t	50	54	313	240	70	120	230	620	340



VRL Load ring // technical data

Type	WLL [t]	weight kg/pc.	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
VRL Load ring									
VRL 4t	4	0.3	63	105	14	69	48	16	18
VRL 6.7t	6.7	0.9	82	132	20	91	60	23	23
VRL 10t	10	1.42	92	150	22	100	65	28	29
VRL 16t	16	3.2	121	204	30	134	90	34	37
VRL 31.5t	31.5	8.6	175	292	42	194	130	48	47

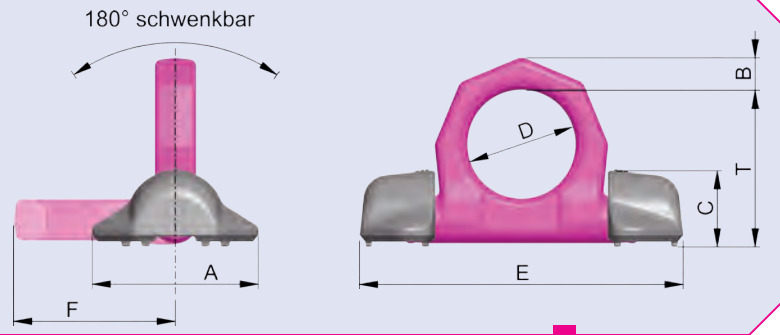


VRBS weld-on block // technical data

Type	WLL [t]	weight kg/pc.	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
VASK – VRBS weld-on block									
VASK 4t	4	0.13	19	62		28			30
VASK 6.7t	6.7	0.34	24	88		39			36
VASK 10t	10	0.63	31	100		46			46
VASK 16t	16	1.6	39	130		57			57
VASK 31.5t	31.5	3.0	49	160		78			82

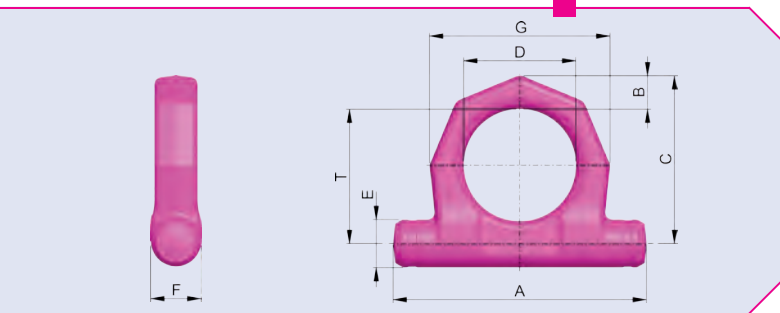


welding seam	Ref. No.
HY 4 + a 3 ▽	7992488
HY 5.5 + a 3 ▽	7992489
HY 6 + a 4 ▽	7992490
HY 8.5 + a 4 ▽	7992491
HY 18 + a 4 ▽	60267
HY 25 + a 8 ▽	56834



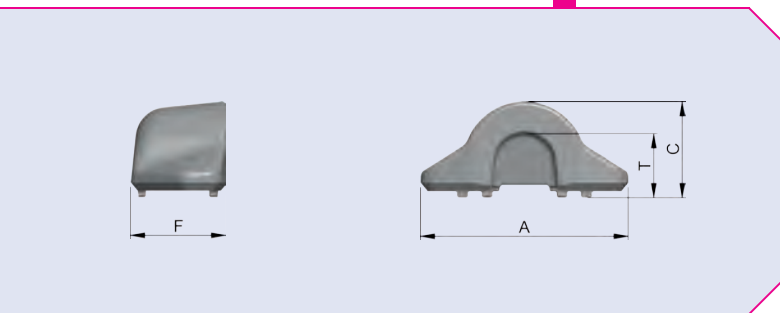
subject to technical modifications

G [mm]	Ref. No.
76	7901659
99	7901660
105	7901661
146	7991924
214	7901639



subject to technical modifications

welding seam	Ref. No.
HY 4 + a 3 ▽	7992004
HY 5.5 + a 3 ▽	7992005
HY 6 + a 4 ▽	7992007
HY 8.5 + a 4 ▽	7992008
HY 18 + a 4 ▽	7987160



subject to technical modifications





VLBS

VIP Load ring
for welding

VLBS-U

VIP Load ring
for welding undetachable

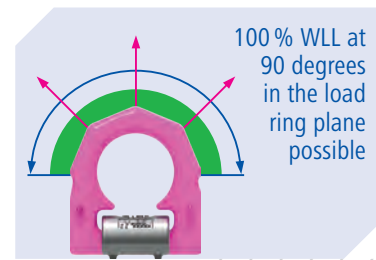
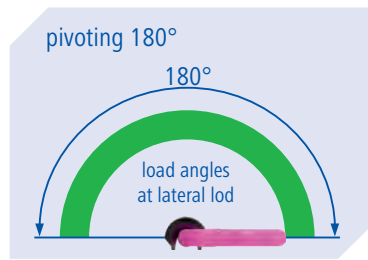
Suspension ring pivots 180°

Suspension ring & weld-on-block
of the VLBS-U are undetachable

Suspension ring can be angled
into position (VLBS-U)

The compact welding solution





The Product features are not consistently applicable for the VLBS-P and LBS-RS variant.

**VLBS / VLBS-U**

Universal Lifting point for welding with a diverse operating range in engineering and plant manufacturing.



Product features VLBS // VLBS-U

4:1

DGUV Test

180°**-20°–200°C****400°C max.**VLBS-U-LT [**-45°–200°C**LBS-RS [**-100°–200°C**

- ✓ **VLBS-U, VLBS-U-LT, VLBS-P: Suspension ring with optimised function form** for a better support at side loading and protection of the clamping spring.
- ✓ **Suspension ring pivots 180°.**
VLBS-P: Suspension ring with enlarged pivoting area.
- ✓ **100 % WLL at 90° in the load ring plane possible.**
- ✓ **Clamping spring** works as a noise reduction and holds the suspension ring in the requested position; therefore simple hinge of lashing mean possible.
- ✓ **VLBS-U, VLBS-U-LT, LBS-RS: Distance knobs at the weld-on block** to achieve the necessary distance for the root weld.
- ✓ **Clear marking of the minimum WLL for all loading directions.**
- ✓ Simple and process safe positioning for the welding of pre-assembled components consisting of suspension ring and weld-on blocks.
- ✓ VLBS, VLBS-U-LT, VLBS-P: The weld-on-block is made (forged) out of a good weldable steel.
- ✓ Appropriate for hot dip galvanising after welding has to be analysed process related and liberised (only VLBS).
- ✓ VLBS-U-LT, VLBS-P: Component according to the test criterias of BG/DGUV "GS-OA-15-04".

VLBS

VIP Load ring
for welding



VLBS-P

VLBS-U

VIP Load ring for welding
undetachable



LBS-RS



VLBS-U-LT

Product features / Application-specific features VLBS / VLBS-U

- ✓ VLBS: tested and certified by DGUV

Testing specifications:
GS-OA-15-04:2012-05
Certificate-No.: OA 1451021



- ✓ Significant product characteristics of the VLBS are subject to property right claims.
- ✓ VLBS-P: For tube diameter 82-220 mm (at bigger diameters the standard version of the VLBS can be used).
- ✓ VLBS-U-LT: Phosphated surface. Confirmation of the deep temperature ability to -45°C by the notch bar impact test.



- ✓ LBS-RS: Component made out of 1.4571: therefore higher resistancy against intergranular corrosion.

- ✓ Simple and fast welding installation.

- ✓ VLBS, VLBS-P, LBS-RS: Confirmation of the deep temperature ability to -40°C by the notch bar impact test is on request possible (before order is placed).


Other important RUD specific information and specialities to our RUD lifting points can be found on page 20 and in the specific user instruction (www.rud.com).

**VLBS-U // VLBS // technical data**

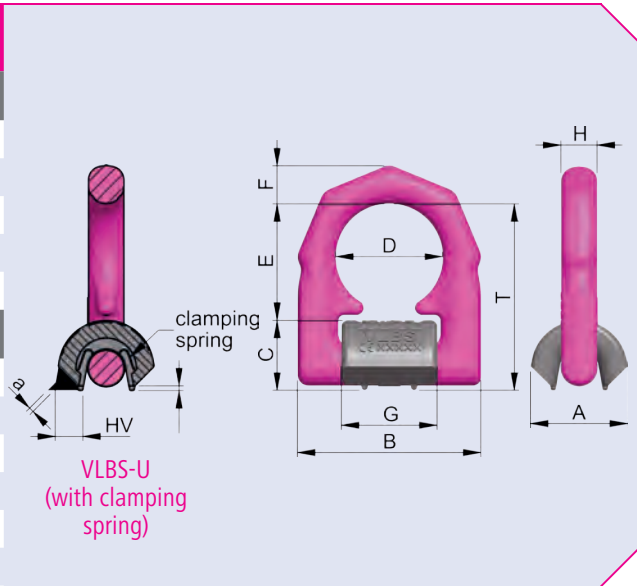
Type	WLL [t]	weight [kg/pc.]	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
VLBS-U – VIP Load ring for welding undetachable (with clamping spring)								
 VLBS-U 1.5t	1.5	0.35	65	33	66	25	38	40
VLBS-U 2.5t	2.5	0.47	75	36	77	27	45	48
VLBS-U 4t	4	0.76	83	42	87	31	51	52
VLBS-U 6.7t	6.7	1.9	117	61	115	44	67	73
VLBS-U 10t	10	2.9	126	75	129	55	67	71
VLBS – VIP Load ring for welding								
 VLBS 1.5t *	1.5	0.35	65	33	66	25	38	40
VLBS 2.5t *	2.5	0.47	75	36	77	27	45	48
VLBS 4t *	4	0.76	83	42	87	31	51	52
VLBS 6.7t *	6.7	1.9	117	61	115	44	67	73
VLBS 10t *	10	2.9	126	75	129	55	67	71
VLBS 16t *	16	6.8	174	96	190	69	100	105

* = without spring

VLBS-U-LT // technical data

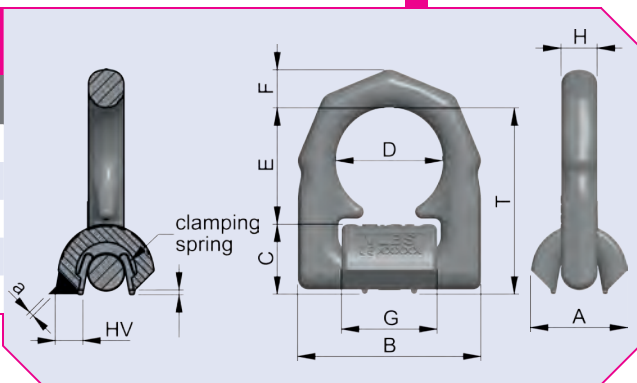
Type	WLL [t]	weight [kg/pc.]	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
VLBS-U-LT – VIP Load ring for welding undetachable-Low Temperature								
 VLBS-U-LT 2.5t	2.5	0.47	75	36	77	27	45	48
VLBS-U-LT 4t	4	0.76	83	42	87	31	51	52
VLBS-U-LT 6.7t	6.7	1.9	117	61	115	44	67	73
VLBS-U-LT 10t	10	2.9	126	75	129	55	67	71

F [mm]	G [mm]	H [mm]	weld seam	Ref. No.
14	33	14	HV5 + a 3 \triangle	7993035
16	40	14	HV7 + a 3 \triangle	7994830
18	46	16	HV8 + a 3 \triangle	7993036
24	60	22	HV12 + a 4 \triangle	7993037
26.5	60	26	HV16 + a 4 \triangle	7993040
14	33	14	HV5 + a 3 \triangle	7993115
16	40	14	HV7 + a 3 \triangle	7995346
18	46	16	HV8 + a 3 \triangle	7993116
24	60	22	HV12 + a 4 \triangle	7993117
26.5	60	26	HV16 + a 4 \triangle	7993118
40	90	26	HV25 + a 6 \triangle	7993041



subject to technical modifications

F [mm]	G [mm]	H [mm]	weld seam	Ref. No.
16	40	14	HV7 + a 3 \triangle	7903522
18	46	16	HV8 + a 3 \triangle	7903400
24	60	22	HV12 + a 4 \triangle	7903684
26.5	60	26	HV16 + a 4 \triangle	7903135



subject to technical modifications

**VLBS-P // technical data**

Type	WLL [t]	weight [kg/pc.]	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
VLBS-P – VIP Load ring weldable for pipes								
VLBS-P 4t	4	0.8	87	45	87	35	51	52

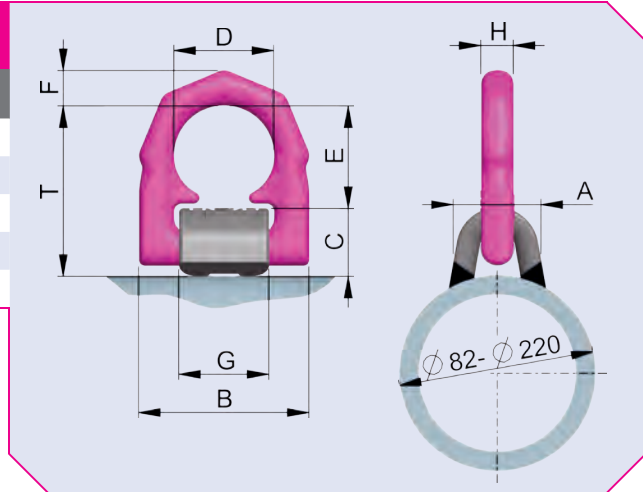
**LBS-RS // technical data**

Type	WLL [t]	weight [kg/pc.]	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
LBS-RS – Load ring weldable stainless steel								
LBS (1) RS-0,5t	0.5	0.3	64	32	65	25	36	39
LBS (3) RS-1t	1	0.6	81	42	85	31	50	50
LBS (5) RS-2t	2	1.7	116	61	110	44	65	72



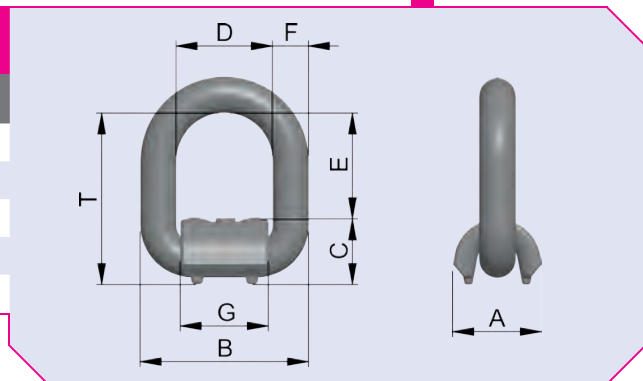
F [mm]	G [mm]	H [mm]	weld seam	Ref. No.
18	46	16.5	HV13 concave	7995472

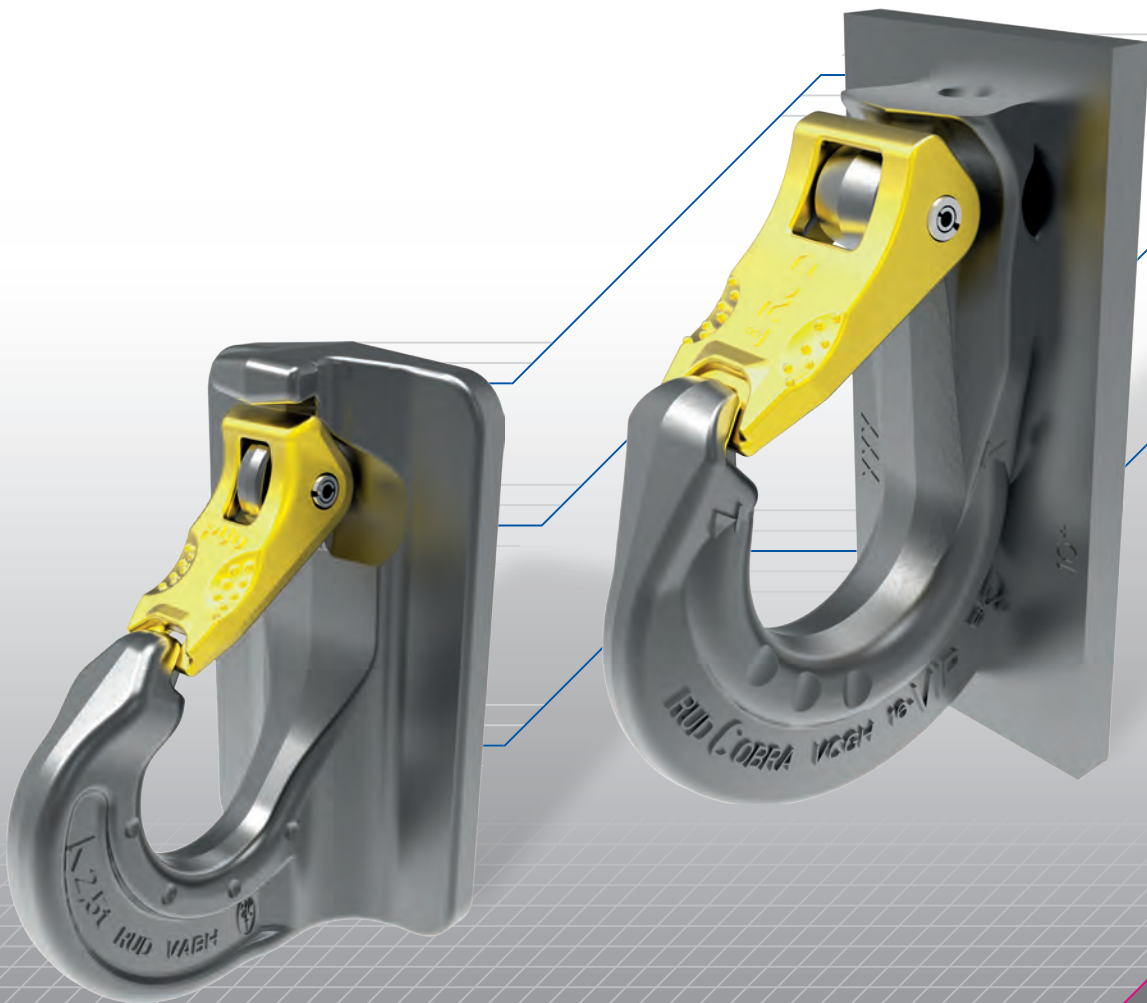
subject to technical modifications



F [mm]	G [mm]	weld seam	Ref. No.
13.5	33	HV4 + a 3 Δ	51630
16.5	46	HV7 + a 3 Δ	51740
22.5	60	HV12 + a 4 Δ	53377

subject to technical modifications





VABH-W

VIP Excavator hook for welding

VCGH-S

VIP Excavator hook for welding



As weldable lifting point on cross bars and beams

For wire rope slings and round slings

For lifting means with loop
or oval suspension ring

The weldable hook for all lifting means





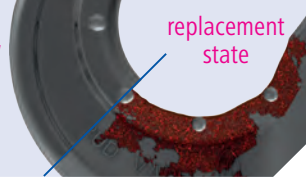
can be combined with most commercial lifting means



patented markings – easy determination for withdraw of service

NEW

replacement state



Robust, forged safety latch.

**VABH-W / VCGH-S**

Used as a lifting point for spreader bars, wire rope slings, round slings, lifting means: oval suspension ring.

Product features



4:1**-40°–
200°C****350°C
max.**

- ✓ Can be combined with most commercial lifting means without additional connecting element.
- ✓ Patented markings for easy determination for withdraw of service.
- ✓ Robust, forged safety latch.
- ✓ Phosphated surface.
- ✓ Weld-on point can be used as excavator hook.

Application-specific features VABH-W / VCGH-S

- ✓ Simple and fast welding installation.
- ✓ VABH-W: Material of weld-on-block 1.6541 (23MnNi CrMo52) (please observe user instruction).
- ✓ VCGH-S: The weld-on-block is made (forged) out of quality weldable steel.

VABH-W / VCGH-S // technical data

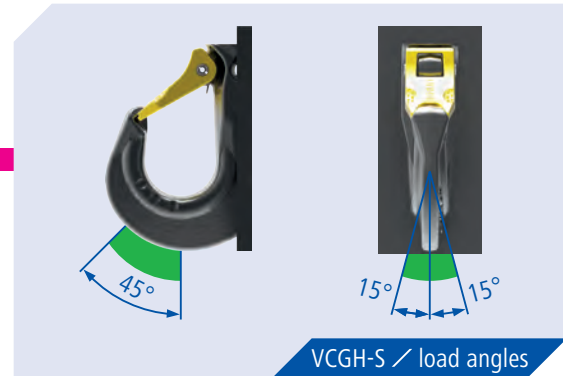
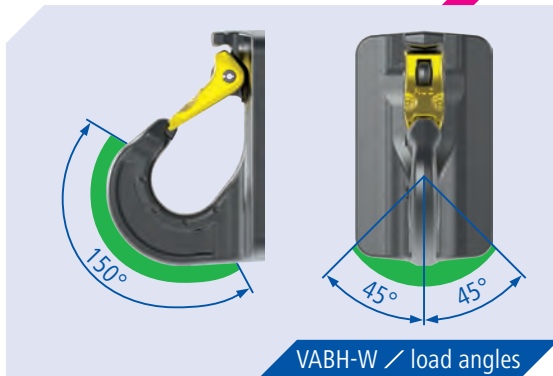
Type	WLL [t]	weight [kg/pc.]	T [mm]	A [mm]	B [mm]	C [mm]	D [mm]
VABH-W – VIP Excavator hook for welding							
 VABH-W 1.5t	1.5	0.8	26	7.5	76	115	111
VABH-W 2.5t	2.5	1.8	33	8.5	98	148	143
VABH-W 4t	4	3.12	46	12	119	168	164
VABH-W 6.7t	6.7	5.89	51	13	147	205	200
VCGH-S – VIP Excavator hook for welding							
 VCGH-S 16	10	5.67	49	15	141	200	220
VCGH-S 20	16	8.4	69	20	187	272	288
VCGH-S 22	20	14.5	74	20	196	276	292

VABH-W

VIP Excavator hook for welding

VCGH-S

VIP Excavator hook for welding



VABH-W

Area of application in ring plane: 150°
Area of application at lateral load: +45°, -45°

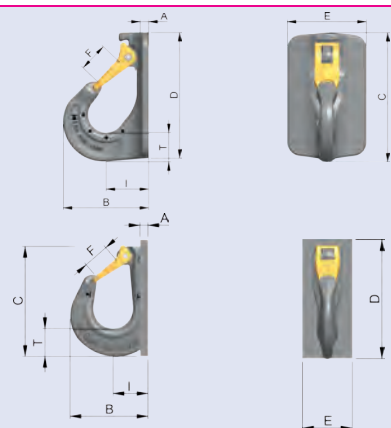
VCGH-S

Area of application in ring plane: 45°
Area of application at lateral load: +15°, -15°

Other important RUD specific information and specialities to our RUD lifting points can be found on page 20 and in the specific user instruction (www.rud.com).

E [mm]	F [mm]	I [mm]	weld seam	Ref. No.
70	26	38	a 4	7991208
85	31.5	49	a 5	7991209
104	35	59	a 6	7991210
120	40	70	a 6	8502239
100	48	69	a 8	7984047
120	63	87	a 8	7984310
120	63	92	a 8	7984312

subject to technical modifications





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Engineered and made
in the heart of Europe!

