



Lifting Points - for bolting -

Maximum transport weight "G" in "tonnes" with different lifting methods

Complies with the machinery directives 2006/42/EG



Thread sizes M 6- M 150 Imperial (UNC,...) and special lengths on request		PP-S (Vario) PowerPoint-Star			PP-B (Vario) PowerPoint-B			PP-VIP (Vario) PowerPoint-VIP			VLBG – Load Ring (Vario)													
Number of legs	Load direction	Thread size	Type	PP-S 0.63 t	PP-S 1.5 t	PP-S 2.5 t	PP-S 4 t	PP-S 5 t	PP-S 8 t	VLBG 0.3 t	VLBG 0.63 t	VLBG 1 t	VLBG 1.5 t	VLBG 2.5 t	VLBG 4 t	VLBG 4 t	VLBG 5 t	VLBG 7 t Spec.	VLBG 8 t	VLBG 10 t	VLBG 15 t	VLBG 20 t	LBG(3) M16 RS 1t	LBG(3) M20 RS 2t
		M		M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
	1 90°	M 12		0.6	1.5	2.5	4	6.7	10	0.3	0.6	1	1.5	2.5	4	4	5	7	8	10	15	20	1	2
	2 90°	M 16		1.2	3	5	8	13.4	20	0.6	1.2	2	3	5	8	8	10	14	16	20	30	40	2	4
	1 0°	M 20		0.6	1.5	2.5	4	5	8	0.3	0.6	1	1.5	2.5	4	4	5	7	8	10	15	20	1	2
	2 90°	M 24		1.2	3	5	8	10	16	0.6	1.2	2	3	5	8	8	10	14	16	20	30	40	2	4
	2 90°-45°	M 30		0.8	2.1	3.5	5.6	7.1	11.2	0.4	0.8	1.4	2.1	3.5	5.6	5.6	7	9.8	11.2	14	21	28	1.4	2.8
	2 0°-30°	M 36		0.6	1.5	2.5	4	5	8	0.3	0.6	1	1.5	2.5	4	4	5	7	8	10	15	20	1	2
	2 unsymmetrical			0.6	1.5	2.5	4	5	8	0.3	0.6	1	1.5	2.5	4	4	5	7	8	10	15	20	1	2
	3+4 90°-45°			1.3	3.2	5.3	8.4	10.5	16.8	0.6	1.3	2.1	3.1	5.2	8.4	8.4	10.5	14.7	16.8	21	31.5	42	2.1	4.2
	3+4 45°-30°			0.9	2.2	3.8	6	7.5	12	0.4	0.9	1.5	2.2	3.7	6	6	7.5	10.4	12	15	22.5	30	1.5	3
	3+4 unsymmetrical			0.6	1.5	2.5	4	5	8	0.3	0.6	1	1.5	2.5	4	4	5	7	8	10	15	20	1	2
		Thread size		M 12	M 16	M 20	M 24	M 30	M 36	M 8	M 10	M 12	M 16	M 20	M 24	M 27	M 30	M 36	M 36	M 42	M 42	M 48	M 16	M 20

RUD Lifting Points

- All parts are either 100 % crack detected or proof loaded accord. to EN 1677.
- All original bolts from RUD are 100 % crack detected.
- Loadable in any direction. Safety factor 4 : 1.
- Types VRS, VRM and VLBG have to be adjusted to the load direction.
- RUD patented features such as clamping spring (VLBS) for noise reduction and distance lugs for a perfect root pass weld increase the ease of use.

- Low installation height, high dynamic and static strength.
- RUD Lifting Points are in accordance with DIN EN 818 and 1677 with a dynamic loading of more than 20,000 load cycles. The BG* recommends: At high dynamic applications with high load cycles (permanent operation), the WLL must be reduced or ask the manufacturer.

* BG-German Employers Liability Insurance.



Lifting Points - for bolting -

Maximum transport weight "G" in "tonnes"
with different lifting methods

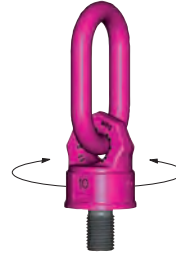


Complies with the machinery directives 2006/42/EG

VWBG-V
Load Ring (Vario)



VWBG
Load Ring



VWBG-V Load Ring (Vario)											VWBG Load Ring																			
WVWG-V 0.3 t	WVWG-V 0.45 t	WVWG-V 0.6 t	WVWG-V 1.0 t	WVWG-V 1.3 t	WVWG-V 1.8 t	WVWG-V 2 t	WVWG-V 2 t	WVWG-V 3.5 t	WVWG-V 3.5 t	WVWG-V 5 t	WVWG 6 (7.5)	WVWG 8 (10)	WVWG 8 (10)	WVWG 12 (13)	WVWG 12 (13)	WVWG 12 (15)	WVWG 13 (16)	WVWG 13 (16)	WVWG 14 (20)	WVWG 16 (22)	WVWG 16 (22)	WVWG 16 (25)	WVWG 16 (25)	WVWG 31.5 (40)	WVWG 31.5 (40)	WVWG 35 (48)	WVWG 35 (48)	WVWG 40 (50)	WVWG 40 (50)	
M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 22	M 24	M 27	M 30	M 33	M 36	M 36-39	M 42	M 42-45	M 45	M 48	M 48-52	M 52	M 56	M 56-62	M 64	M 64-76	M 72	M 72-76	M 80	M 80-85	M 90	M 90-150	
0.6	0.9	1.2	2.0	2.6	3.6	4	4	7	7	10	15	15	15	17	17	18	18	18	25	28	28	28	28	50	50	50	50	50	50	50
1.2	1.8	2.4	4.0	5.2	7.2	8	8	14	14	20	30	30	30	34	34	36	36	36	50	56	56	56	56	100	100	100	100	100	100	100
0.3 (0.4)	0.45 (0.6)	0.6 (0.7)	1.0 (1.25)	1.3 (1.5)	1.8 (2.0)	2 (2.5)	2 (2.5)	3.5 (4)	3.5 (4)	5 (6)	6 (7.5)	8 (10)	8 (10)	12 (13)	12 (13)	12 (15)	13 (16)	13 (16)	14 (20)	16 (22)	16 (22)	16 (25)	16 (25)	31.5 (40)	31.5 (40)	35 (48)	35 (48)	40 (50)	40 (50)	
0.6 (0.8)	0.9 (1.2)	1.2 (1.5)	2.0 (2.5)	2.6 (3)	3.6 (4.0)	4 (5)	4 (5)	7 (8)	7 (8)	10 (12)	12 (15)	16 (20)	16 (20)	24 (26)	24 (26)	24 (30)	26 (32)	26 (32)	28 (40)	32 (44)	32 (44)	32 (50)	32 (50)	63 (80)	63 (80)	70 (96)	70 (96)	80 (100)	80 (100)	
0.4	0.6	0.8	1.4	1.8	2.5	2.8	2.8 (3.5)	4.9	4.9 (5.6)	7	8.4 (10.5)	11.2 (14)	11.2 (14)	16.8 (18.2)	16.8 (18.2)	16.8 (21)	18.2 (22.4)	18.2 (22.4)	19.6 (28)	22.4 (30.8)	22.4 (30.8)	22.4 (35)	22.4 (35)	44.1 (56)	44.1 (56)	49 (67.2)	49 (67.2)	56 (70)	56 (70)	
0.3	0.4	0.6	1.0	1.3	1.8	2	2 (2.5)	3.5	3.5 (4)	5	6 (7.5)	8 (10)	8 (10)	12 (13)	12 (13)	12 (15)	13 (16)	13 (16)	14 (20)	16 (22)	16 (22)	16 (25)	16 (25)	31.5 (40)	31.5 (40)	35 (48)	35 (48)	40 (50)	40 (50)	
0.3	0.4	0.6	1.0	1.3	1.8	2	2 (2.5)	3.5	3.5 (4)	5	6 (7.5)	8 (10)	8 (10)	12 (13)	12 (13)	12 (15)	13 (16)	13 (16)	14 (20)	16 (22)	16 (22)	16 (25)	16 (25)	31.5 (40)	31.5 (40)	35 (48)	35 (48)	40 (50)	40 (50)	
0.6	0.9	1.2	2.1	2.7	3.7	4.2	4.2 (5.25)	7.3	7.3 (8.4)	10.5	12.6 (15.7)	16.8 (21)	16.8 (21)	25.2 (27.3)	25.2 (27.3)	25.2 (31.5)	27.3 (33.6)	27.3 (33.6)	29.4 (42)	33.6 (46.2)	33.6 (46.2)	33.6 (52.5)	33.6 (52.5)	66.15 (84)	66.15 (84)	73.5 (100)	73.5 (100)	84 (105)	84 (105)	
0.4	0.6	0.9	1.5	1.9	2.7	3	3 (3.75)	5.2	5.2 (6)	7.5	9 (11.2)	12 (15)	12 (15)	18 (19.5)	18 (19.5)	18 (22.5)	19.5 (24)	19.5 (24)	21 (30)	24 (33)	24 (33)	24 (37.5)	24 (37.5)	47.25 (60)	47.25 (60)	52.5 (72)	52.5 (72)	60 (75)	60 (75)	
0.3	0.4	0.6	1.0	1.3	1.8	2	2 (2.5)	3.5	3.5 (4)	5	6 (7.5)	8 (10)	8 (10)	12 (13)	12 (13)	12 (15)	13 (16)	13 (16)	14 (20)	16 (22)	16 (22)	16 (25)	16 (25)	31.5 (40)	31.5 (40)	35 (48)	35 (48)	40 (50)	40 (50)	
M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 22	M 24	M 27	M 30	M 33	M 36	M 36-39	M 42	M 42-45	M 45	M 48	M 48-52	M 52	M 56	M 56-60	M 64	M 64-76	M 72	M 72-76	M 80	M 80-85	M 90	M 90-150	

Note: The working load limit (WLL) is listed as the worst case scenario unless otherwise specified.

We have the right tools for you. **Call us!** Phone no. or e-mail:

(800) 553-7993 or sales@rudchain.com

The perfect service for the CAD department.
We provide you with geometry datas for your design.

For the calculation of the right lifting point. Especially useful for the designer is the 3D-presentation of the lifting points.

...click www.rudchain.com

Click on **lifting means** → **lifting points**



Subject to technical alternations!



Lifting Points - for bolting -

Maximum transport weight "G" in "tonnes" with different lifting methods



Complies with the machinery directives 2006/42/EG

Thread sizes M6-M150 Imperial (UNC,...) and special lengths on request	VRS Starpoint Vario eyebolt		VRM Starpoint Vario eyenut		INOX-STAR		RS/RM High-tensile eye bolt/eye nut		RBG/VRBG Load Ring										
	Number of legs	Load direction	Thread size	Typ	Thread size	Typ	Thread size	Typ	Thread size	Typ									
1 90° 2 90° 1 0° 2 0° 2 90°/45° 2 45°/30° 2 unsymmetrical 3+4 90°/45° 3+4 45°/30° 3+4 unsymmetrical	1	90°	M6	VRS M6 / VRM M6	M6	VRM M6	M6	INOX M6	M6	RS M6 / RM M6	M6	RBG 3 t	2x	M	16				
	1	90°	M8	VRS M8 / VRM M8	M8	VRM M8	M8	INOX M8	M8	RS M8 / RM M8	M8	RBG 10 t	4x	M	20				
	1	90°	M10	VRS M10 / VRM M10	M10	VRM M10	M10	INOX M10	M10	RS M10 / RM M10	M10	VRBG 16 t	4x	M	30				
	1	90°	M12	VRS M12 / VRM M12	M12	VRM M12	M12	INOX M12	M12	RS M12 / RM M12	M12	VRBG 31.5 t	6x	M	30				
	1	90°	M16	VRS M16 / VRM M16	M16	VRM M16	M16	INOX M16	M16	RS M16 / RM M16	M16	VRBG 50 t	8x	M	36				
	1	90°	M20	VRS M20 / VRM M20	M20	VRM M20	M20	INOX M20	M20	RS M20 / RM M20	M20	WBPG 80 t	6x	M	48				
	1	90°	M24	VRS M24 / VRM M24	M24	VRM M24	M24	INOX M24	M24	RS M24 / RM M24	M24	WBPG 100 t	6x	M	48				
	1	90°	M30	VRS M30 / VRM M30	M30	VRM M30	M30	INOX M30	M30	RS M30 / RM M30	M30	WBPG 200 t	10x	M	48				
	1	90°	M36	VRS M36	M36	VRM M36	M36	INOX M36	M36	RS M36 / RM M36	M36								
	1	90°	M42	VRS M42	M42	VRM M42	M42	INOX M42	M42	RS M42 / RM M42	M42								
1	90°	M48	VRS M48	M48	VRM M48	M48	INOX M48	M48	RS M48 / RM M48	M48									
1	0°	M6	0.1	0.3	0.4	0.7	1.5	2.3	3.2	4.5	7	9	12	0.5	1.0	2.0	2.5	-	
1	0°	M8	0.2	0.6	0.8	1.5	3	4.6	6.4	9	14	18	24	1.0	2.0	4.0	5.0	-	
1	0°	M10	0.14	0.42	0.56	1	2.1	3.2	4.5	6.3	9.8	12.6	16.8	0.7	1.4	2.8	3.5	-	
1	0°	M12	0.1	0.3	0.4	0.7	1.5	2.3	3.2	4.5	7	9	12	0.5	1.0	2.0	2.5	-	
1	0°	M16	0.1	0.3	0.4	0.7	1.5	2.3	3.2	4.5	7	9	12	0.5	1.0	2.0	2.5	-	
1	0°	M20	0.21	0.63	0.8	1.5	3.1	4.8	6.7	9.4	14.7	18.9	25	1.0	2.1	4.2	5.3	-	
1	0°	M24	0.15	0.45	0.6	1.1	2.2	3.4	4.8	6.7	10.5	13.5	18	0.7	1.5	3.0	3.7	-	
1	0°	M30	0.1	0.3	0.4	0.7	1.5	2.3	3.2	4.5	7	9	12	0.5	1.0	2.0	2.5	-	
1	0°	M36																	
1	0°	M42																	
1	0°	M48																	
1	0°	M6																	
1	0°	M8																	
1	0°	M10																	
1	0°	M12																	
1	0°	M16																	
1	0°	M20																	
1	0°	M24																	
1	0°	M30																	
1	0°	M36																	
1	0°	M42																	
1	0°	M48																	
1	0°	M6																	
1	0°	M8																	
1	0°	M10																	
1	0°	M12																	
1	0°	M16																	
1	0°	M20																	
1	0°	M24																	
1	0°	M30																	
1	0°	M36																	
1	0°	M42																	
1	0°	M48																	
1	0°	M6																	
1	0°	M8																	
1	0°	M10																	
1	0°	M12																	
1	0°	M16																	
1	0°	M20																	
1	0°	M24																	
1	0°	M30																	
1	0°	M36																	
1	0°	M42																	
1	0°	M48																	

We recommend to use either "VRS Starpoint" or "PowerPoint" which can be adjusted to the direction of pull!

We have the right tools for you. Call us! Phone no. or e-mail:

(800) 553-7993 or sales@rudchain.com

The perfect service for the CAD department. We provide you with geometry datas for your design.

For the calculation of the right lifting point. Especially useful for the designer is the 3D-presentation of the lifting points.

...click www.rudchain.com

Click on **lifting means** → **lifting points**

