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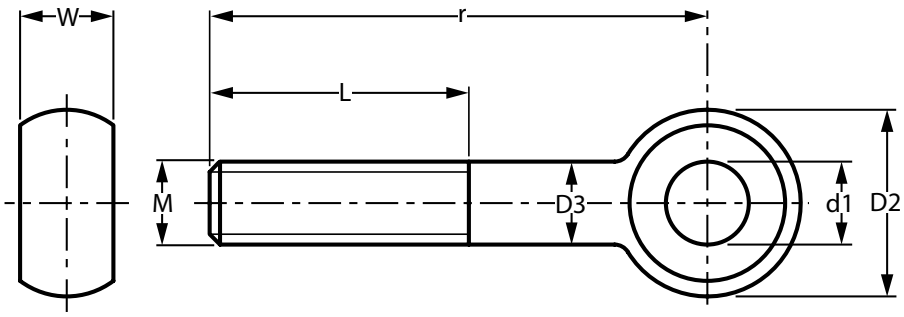
MECHANICAL

GN.125

Eye Screws

Steel : DIN 444 : M6 - M20



Part Number	Thread M	Thread Length L	Hole Dia. d1 H7	$D2^{-0.3}$	D3	r	$W^{-0.15}$	Mass g
GN.12502	M6	32	6	14	6	50	7	14
GN.12504	M6	32	6	14	6	75	7	20
GN.12512	M8	32	8	18	8	50	9	26
GN.12514	M8	32	8	18	8	75	9	36
GN.12522	M10	40	10	20	10	50	12	38
GN.12524	M10	40	10	20	10	75	12	52
GN.12526	M10	40	10	20	10	100	12	68
GN.12532	M12	40	12	25	12	75	14	80
GN.12534	M12	40	12	25	12	100	14	98
GN.12536	M12	40	12	25	12	130	14	120
GN.12542	M16	50	16	32	16	75	17	146
GN.12544	M16	50	16	32	16	100	17	183
GN.12546	M16	50	16	32	16	130	17	220
GN.12552	M20	63	18	40	20	100	22	305
GN.12554	M20	63	18	40	20	130	22	366
GN.12556	M20	63	18	40	20	160	22	438

Material

Turned Steel, Class 5.8 with a black-oxide finish.

Tensile Strength: 500 N/mm^2.

Options

Different threads and lengths (subject to minimum order quantities).

Features

• Used mainly for coupling up moulds, connections, assembly equipment, etc.

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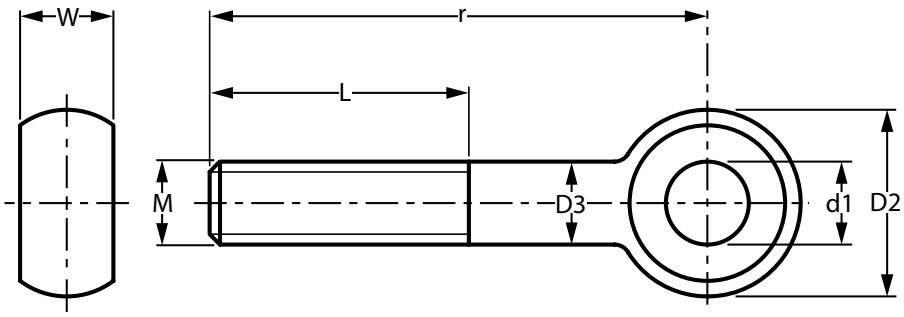
GN.125

MECHANICAL

Eye Screws

Stainless Steel : DIN 444 : M6 - M16



Part Number	Thread M	Thread Length L	Hole Dia. d1 H7	$D2^{-0.3}$	D3	r	$W^{-0.15}$	Mass g
GN.12503	M6	32	6	14	6	50	7	14
GN.12505	M6	32	6	14	6	75	7	20
GN.12513	M8	32	8	18	8	50	9	26
GN.12515	M8	32	8	18	8	75	9	36
GN.12523	M10	40	10	20	10	50	12	38
GN.12525	M10	40	10	20	10	75	12	52
GN.12527	M10	40	10	20	10	100	12	68
GN.12533	M12	40	12	25	12	75	14	80
GN.12535	M12	40	12	25	12	100	14	98
GN.12537	M12	40	12	25	12	130	14	120
GN.12543	M16	50	16	32	16	75	17	146
GN.12545	M16	50	16	32	16	100	17	183
GN.12547	M16	50	16	32	16	130	17	220

Material

303 Stainless Steel with a sandblasted matte finish.

Options

Different threads and lengths (subject to minimum order quantities).

Features

• Used mainly for assembly equipment and connections.

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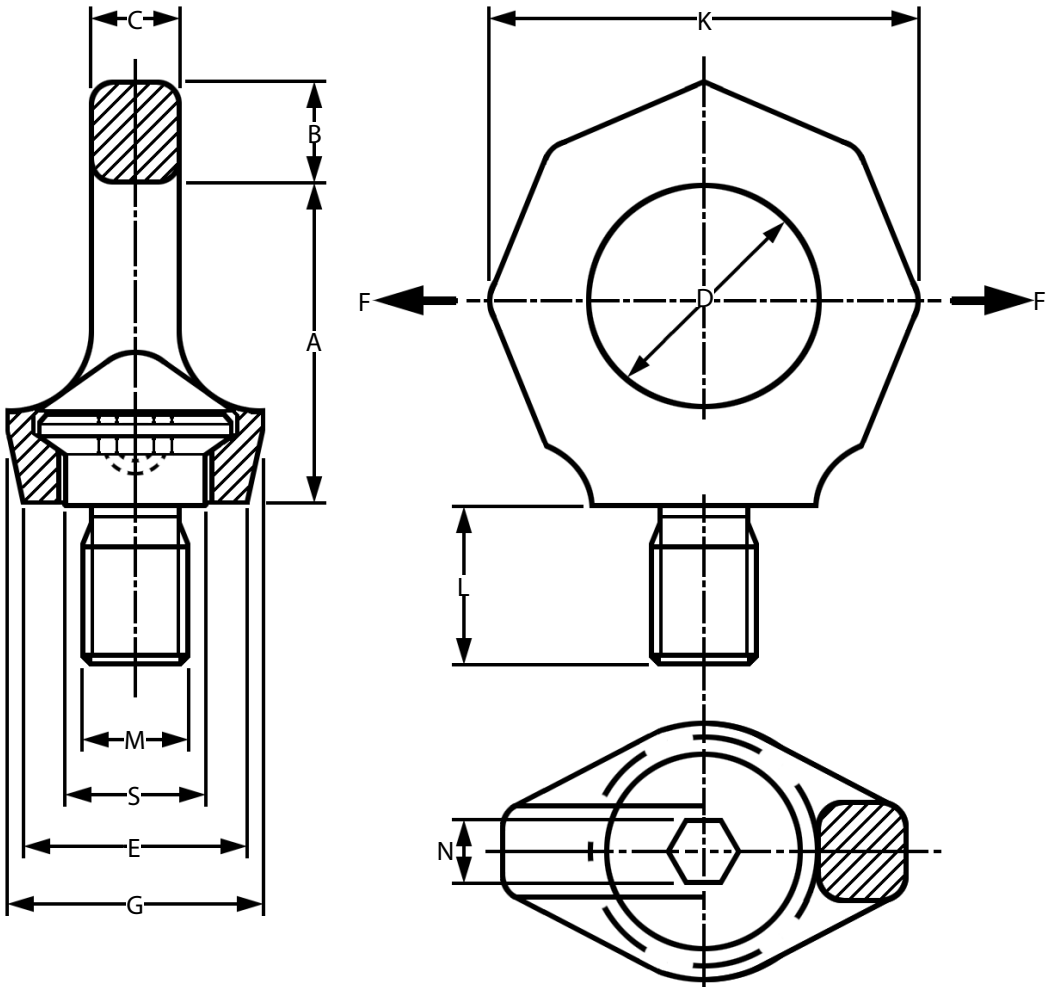
MECHANICAL

VRSF

Lifting & Lashing Points For Bolting

Plain Bearing Eye Bolts : 0.3 - 12t : M8 - M48



Part Number	WLL (t)	Bolt Thread M	A	B	C	D	E	G	K	L	N	S	Mass kg
VRSF-M8	0.30	M8	34	11	8.5	25	25	32	47	12	6	16.0	0.10
VRSF-M10	0.40	M10	34	11	8.5	25	25	32	47	15	6	16.0	0.10
VRSF-M12	0.75	M12	42	13	10.0	30	30	34	56	18	8	20.0	0.20
VRSF-M16	1.50	M16	49	15	14.0	35	35	40	65	24	10	23.5	0.30
VRSF-M20	2.30	M20	57	17	16.0	40	42	50	75	30	12	29.0	0.50
VRSF-M24	3.20	M24	70	21	19.0	48	50	60	90	36	14	35.0	0.90
VRSF-M30	4.50	M30	86	26	24.0	60	60	75	112	45	17	44.0	1.70
VRSF-M36	7.00	M36	103	32	29.0	72	75	90	135	54	22	53.0	2.90
VRSF-M42	9.00	M42	120	38	34.0	82	85	105	158	63	24	61.5	4.60
VRSF-M48	12.00	M48	137	43	38.0	94	100	120	180	72	27	70.5	7.00

Material

Shape: Star shaped - clear distinction from standard eye bolt DIN 580.
Body: Forged material 1.6541, alloy quenched and tempered, 100%.
Electromagnetic crack detected according to EN 1677-1.
Surface: Powder coated (patented) which changes colour permanently with temperature from day-glo pink (up to +225°C) to beige (+250°C) to brown (+320°C) to black (+380°C).
Marking: Clear indication of Working Load Limit (WLL) (in metric tonnes and lbs) for side load direction **F**.
Captive Hexagon Socket Screw: Grade 10.9.

Other Info.

When using the **VRSF** in over heated areas, the WLL has to be reduced as follows, based upon the strength of the bolts:
100°C to 200°C (212°F to 392°F) -15%,
200°C to 250°C (392°F to 482°F) -20%,
250°C to 350°C (482°F to 662°F) -25%.
Temperatures exceeding 350°C (662°F) are not recommended.

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MECHANICAL

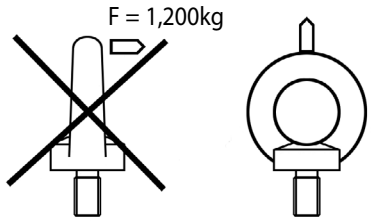
VRSF

Lifting & Lashing Points For Bolting

Plain Bearing Eye Bolts : 0.3 - 12t : M8 - M48

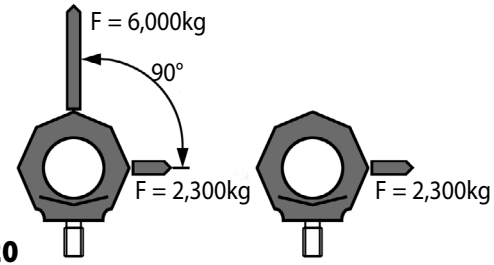
Comparison Example

Eye bolt DIN 580-M20



M20

Starpoint VRSF-M20



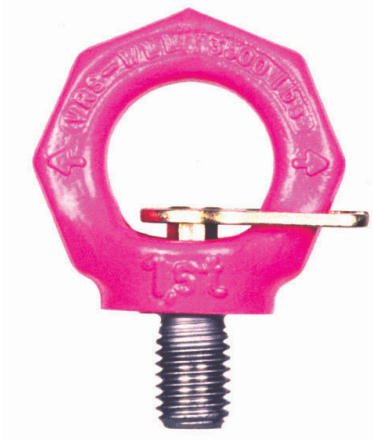
M20

Important

Lateral forces with standard eye bolts according to DIN580 are forbidden.
In case of multiple leg suspensions 2-leg and ¾-leg the ring plane of the eye bolt eyes must be the direction of pull.
This cannot be guaranteed when standard eye bolts are tightened.

This is only possible with the Starpoint eye bolt, because it can be adjusted in pull direction in the tightened position.

Fitting and Adjusting the VRSF Starpoint



VRSF Fixed

VRSF Adjustable

Type VRSF includes the locking device/Star key.
The Starpoint is delivered with an integrated installation tool.
The tool should be engaged into the hexagon socket screw and tightened by the hand-disengage tool.
The Starpoint is then adjustable 360°.

Other Info.

Supplied with an integrated installation tool. Just engage the tool into the hexagon socket screw – tighten by hand – disengage tool.
- All parts are either 100 % crack detected or proof loaded according to EN 1677.
- All original bolts are 100 % crack detected.
- Each lifting product is rated with a working load limit with a safety factor of 4 from the worst angle of lift.
  This means the product will break at more than 4 times the Working Load Limit (WLL) (for multi-leg lifts please consult sales).
- Must be adjusted to the load direction.
- Low installation height, high dynamic and static strength.
- Lifting Points are in accordance with DIN EN 818 and 1677 with a dynamic loading of more than 20,000 load cycles.
  It is recommended that at high dynamic applications with high load cycles (permanent operation), the WLL must be reduced or ask for further details.

Features and Recommendations

- Safety factor 4 : 1.
- Workpiece material must conform to minimum Steel quality S235JR/St 37. (1.0037).
- Maximum countersink of tapped hole = nominal thread diameter.
- Provide plane seat of the special hexagon bolt.
- Must be able to rotate by 360° in bolted condition.
- Adjust to load direction before loading.
- Component protected by patents: Europe patent EP 654 611. US patent 5690457.

Simply engage the hexagon socket bolt with the star profile key – use your fingers to respectively tighten or untighten the arrangement.
Disengage the key before you hook in the lifting mean.
Do not use an elongation piece.

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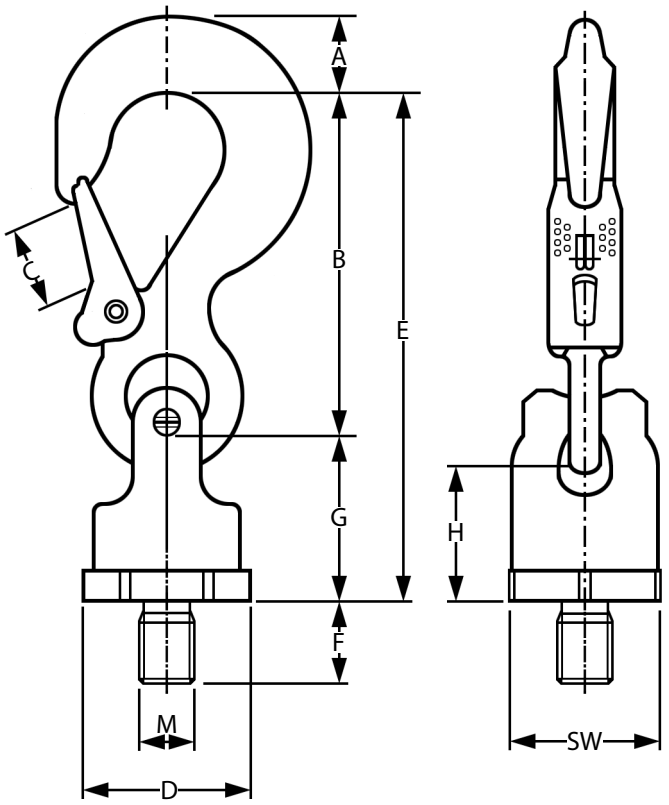
MECHANICAL

PP-S

Lifting & Lashing Points For Bolting

PowerPoint Star : 0.63 - 8t : M12 - M36



Part Number	WLL (t)	Bolt Thread M	A	B	C	D	E	F†	G	H	SW	Mass kg
PP-S-M12	0.63	M12	13	75	18	40	116	18	41	33	36	0.4
PP-S-M16	1.50	M16	20	97	25	46	147	24	50	40	41	1.0
PP-S-M20	2.50	M20	28	126	30	61	187	30	61	47	55	1.7
PP-S-M24	4.00	M24	36	150	35	78	227	36	77	60	70	3.5
PP-S-M30	5.0/6.7*	M30	37	174	40	95	267	45	93	71	85	7.2
PP-S-M36	8.0/10.0*	M36	49	208	48	100	310	54	102	76	90	9.2

* Increased WLL at axial load direction.

† Variable thread lengths are available upon request.

Material

Body: EN1677 Grade 8.
Surface: Powder coated (patented) which changes colour permanently with temperature from day-glo pink (up to +225°C) to beige (+250°C) to brown (+320°C) to black (+380°C).

Torque: According to the user instructions.
When using the **PP-S** in overheated areas, the Working Load Limit (WLL) has to be reduced based upon the strength of the bolts as follows:-
100°C to 200°C (212°F to 392°F) -15%,
200°C to 250°C (392°F to 482°F) -20%,
250°C to 350°C (482°F to 662°F) -25%.

Temperatures exceeding 350°C (662°F) are not recommended.

Other Info.

- All parts are either 100 % crack detected or proof loaded according to EN 1677.
- All original bolts are 100 % crack detected.
- Each lifting product is rated with a working load limit with a safety factor of 4 from the worst angle of lift. This means the product will break at more than 4 times the Working Load Limit (WLL) (for multi-leg lifts please consult sales).
- Low installation height, high dynamic and static strength.
- Lifting Points are in accordance with DIN EN 818 and 1677 with a dynamic loading of more than 20,000 load cycles.
  It is recommended that at high dynamic applications with high load cycles (permanent operation), the WLL must be reduced or ask for further details.

Features and Recommendations

- Double ball bearing for free turning and soft winding
- Suitable for all lifting/ lashing means for example hooks, rings and slings.
- Non-protruding hook tip
- Forged safety latch, engages in the tip of the hook therefore protected against lateral bending.
- Triple coiled corrosion protected double leg spring
- Thickened tip of the hook prevents handling malpractices and resists bending.
- Wearing edges on both sides and gauge marks for measuring the width of the hook opening.
- Not suitable for permanent swivelling under load
- Even under full load, can be turned in a 90° position from the bolt centre line.
- Complies with machinery directives 2006/42/EG.
- Also available in Inch sizes, P.O.A.

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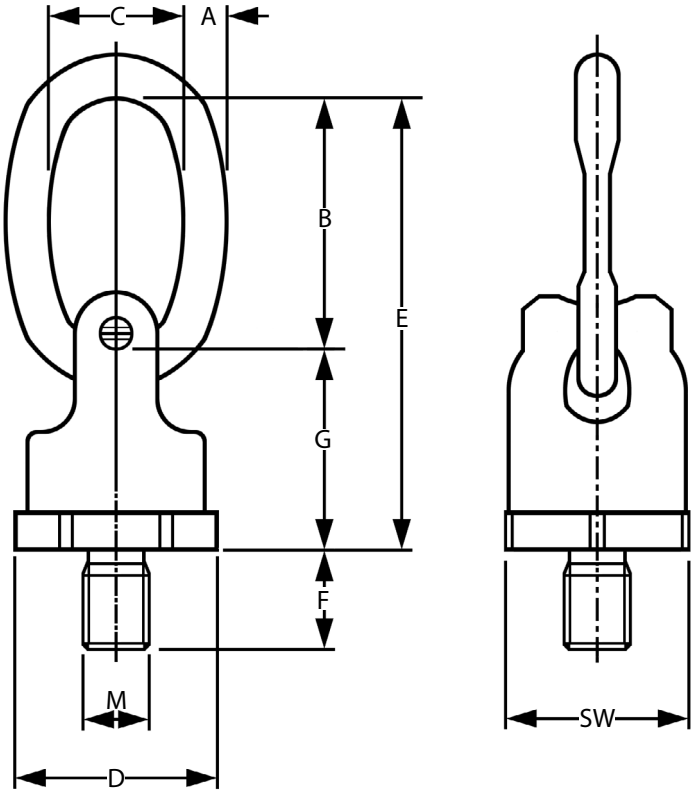
MECHANICAL

PP-B

Lifting & Lashing Points For Bolting

PowerPoint Ring Connection : 0.63 - 8t : M12 - M36



Part Number	WLL (t)	Bolt Thread M	A	B	C	D	E	F	G	SW	Mass kg
PP-B-M12	0.63	M12	9	65	35	40	105	18	41	36	0.35
PP-B-M16	1.50	M16	11	65	35	46	115	24	50	41	0.60
PP-B-M20	2.50	M20	13	75	40	61	135	30	61	55	1.10
PP-B-M24	4.00	M24	16	95	45	78	172	36	77	70	2.10
PP-B-M30	5.0/6.7*	M30	21	130	60	95	223	45	93	85	4.50
PP-B-M36	8.0/10.0*	M36	24	140	65	100	242	54	102	90	6.10

* Increased WLL at axial load direction.

Material

Body: EN1677 Grade 8.
Surface: Powder coated (patented) which changes colour permanently with temperature from day-glo pink (up to +225°C) to beige (+250°C) to brown (+320°C) to black (+380°C).

Torque: According to the user instructions.
When using the **PP-B** in overheated areas, the Working Load Limit (WLL) has to be reduced based upon the strength of the bolts as follows:-
100°C to 200°C (212°F to 392°F) -15%,
200°C to 250°C (392°F to 482°F) -20%,
250°C to 350°C (482°F to 662°F) -25%.

Temperatures exceeding 350°C (662°F) are not recommended.

Other Info.

- All parts are either 100 % crack detected or proof loaded according to EN 1677.
- All original bolts are 100 % crack detected.
- Each lifting product is rated with a working load limit with a safety factor of 4 from the worst angle of lift. This means the product will break at more than 4 times the Working Load Limit (WLL) (for multi-leg lifts please consult sales).
- Low installation height, high dynamic and static strength.
- Lifting Points are in accordance with DIN EN 818 and 1677 with a dynamic loading of more than 20,000 load cycles.
  It is recommended that at high dynamic applications with high load cycles (permanent operation), the WLL must be reduced or ask for further details.

Features and Recommendations

- Easy identification of WLL
- Loadable in any direction. Safety factor 4 : 1
- Double ball bearing for free turning and soft winding
- Cr, Ni, Mo-steel special quenched and tempered
- All parts 100 % crack detected
- Max. load limit at smallest thread diameter
- Variable screw lengths available
- Can also be used for through holes
- Surface: pink powder coated
- Fast amortisation because of easy handling
- Can be turned under full load even in a 90° position from the bolt centre line.
- Not suitable for permanent swivelling under full load
- Also available in Inch sizes, P.O.A.

Notice: Follow the Instructions for use!

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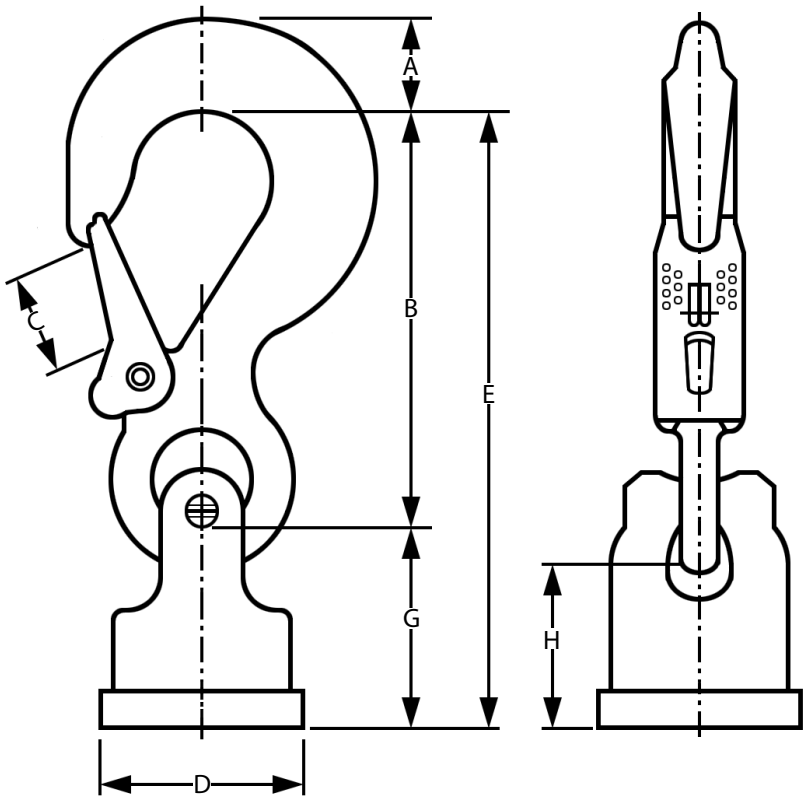
MECHANICAL

WPP-S

Lifting & Lashing Points For Welding

PowerPoint Universal Connection : 0.63 - 8t



Part Number	WLL (t)	A	B	C	D	E	G	Weld HY +◺	Approx. Mass kg
WPP-S-0.63T	0.63	13	75	18	40	115	40	◺3.5	0.4
WPP-S-1.5T	1.50	20	97	25	46	147	50	◺4.5	1.0
WPP-S-2.5T	2.50	28	126	30	61	187	61	HY3 + 5	1.5
WPP-S-4T	4.00	36	150	35	78	227	77	HY3 + 6	3.3
WPP-S-5T	5.0/6.7*	37	174	40	95	267	93	HY3 + 8	7.1
WPP-S-8T	8.0/10.0*	49	208	48	100	310	102	HY3 + 10	8.2

* Increased WLL at axial load direction.

Material

Body: CrNiMo Steel Quenched and Tempered.
Surface: Powder coated (patented) which changes colour permanently with temperature from day-glo pink (up to +225°C) to beige (+250°C) to brown (+320°C) to black (+380°C).

Torque: According to the user instructions.
When using the **WPP-S** in overheated areas, the Working Load Limit (WLL) has to be reduced based upon the strength of the bolts as follows:-
100°C to 200°C (212°F to 392°F) -15%,
200°C to 250°C (392°F to 482°F) -20%,
250°C to 350°C (482°F to 662°F) -25%.

Temperatures exceeding 350°C (662°F) are not recommended.

Other Info.

- All parts are either 100 % crack detected or proof loaded according to EN 1677.
- Each lifting product is rated with a working load limit with a safety factor of 4 from the worst angle of lift. This means the product will break at more than 4 times the Working Load Limit (WLL) (for multi-leg lifts please consult sales).
- Low installation height, high dynamic and static strength.
- Lifting Points are in accordance with DIN EN 818 and 1677 with a dynamic loading of more than 20,000 load cycles.
  It is recommended that at high dynamic applications with high load cycles (permanent operation), the WLL must be reduced or ask for further details.

Features and Recommendations

- Can be turned even in a 90° position under full load from the bolt centre line.
- Features double ball bearing.
- 360° swivelling. Not suitable for permanent swivelling under full load.
- Clear identification of the WLL.
- Max. WLL with smallest welding surface.
- No damage due to safe transport and fast amortization because of easy handling.
- WPP-S range is the universal connection for round slings, wire ropes, hook and ring assemblies. Warranty can only be given when assembled with original components and chains
- See 'Separate components' page for details of available options and accessories.

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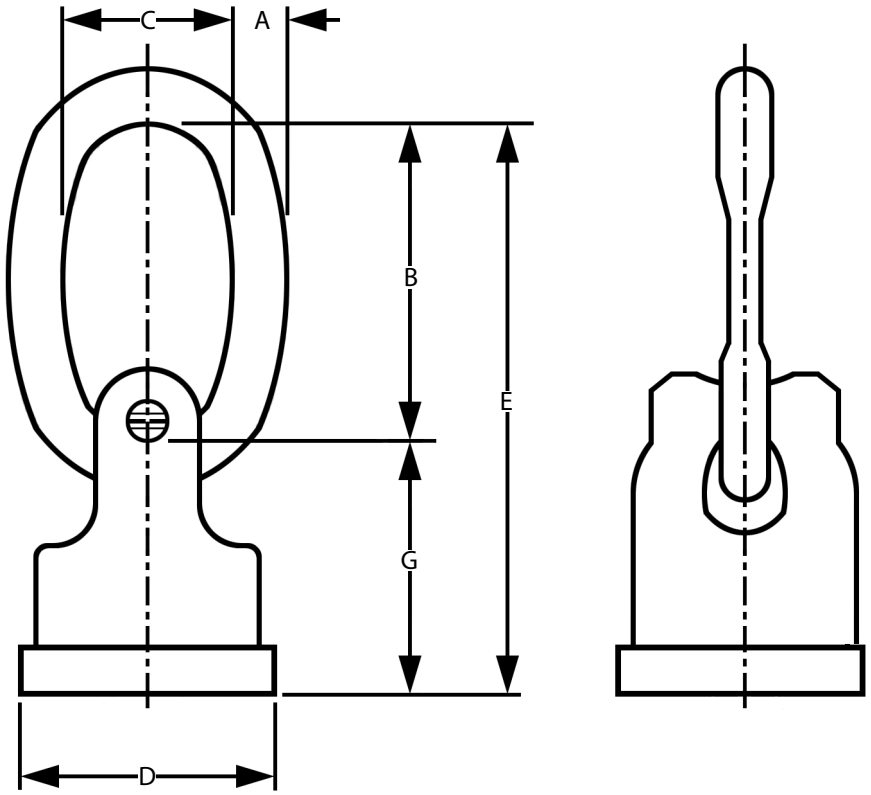
MECHANICAL

WPP-B

Lifting & Lashing Points For Welding

PowerPoint with Double Ball Bearing : 0.63 - 8t



Part Number	WLL (t)	A	B	C	D	E	G	Weld HY +◺	Approx. Mass kg
WPP-B-0.63T	0.63	9	65	35	40	105	40	◺3.5	0.35
WPP-B-1.5T	1.50	11	65	35	46	115	50	◺4.5	0.60
WPP-B-2.5T	2.50	13	74	40	61	135	61	HY3 + 5	1.00
WPP-B-4T	4.00	16	95	45	78	172	77	HY3 + 6	2.30
WPP-B-5T	5.00	19	130	60	95	223	93	HY3 + 8	4.70
WPP-B-8T	8.00	24	140	65	100	242	102	HY3 + 10	5.30

Material

Body: CrNiMo Steel Quenched and Tempered.
Surface: Powder coated (patented) which changes colour permanently with temperature from day-glo pink (up to +225°C) to beige (+250°C) to brown (+320°C) to black (+380°C).
Torque: According to the user instructions.

When using the **WPP-S** in overheated areas, the Working Load Limit (WLL) has to be reduced based upon the strength of the bolts as follows:-
100°C to 200°C (212°F to 392°F) -15%,
200°C to 250°C (392°F to 482°F) -20%,
250°C to 350°C (482°F to 662°F) -25%.

Temperatures exceeding 350°C (662°F) are not recommended.

Other Info.

- All parts are either 100 % crack detected or proof loaded according to EN 1677.
- All original bolts are 100 % crack detected.
- Each lifting product is rated with a working load limit with a safety factor of 4 from the worst angle of lift. This means the product will break at more than 4 times the Working Load Limit (WLL) (for multi-leg lifts please consult sales).
- Low installation height, high dynamic and static strength.
- Lifting Points are in accordance with DIN EN 818 and 1677 with a dynamic loading of more than 20,000 load cycles.
  It is recommended that at high dynamic applications with high load cycles (permanent operation), the WLL must be reduced or ask for further details.

Features and Recommendations

- Can be turned even in a 90° position under full load from the bolt centre line.
- Features double ball bearing.
- 360° swivelling. Not suitable for permanent swivelling under full load.
- Clear identification of the WLL.
- Max. WLL with smallest welding surface.
- No damage due to safe transport and fast amortization because of easy handling.
- WPP-B range is the ring connection for hook assemblies.
  Warranty can only be given when assembled with original components and chains.
- See 'Separate components' page for details of available options and accessories.
- Available to purchase separately. See 'Separate components' page for details.

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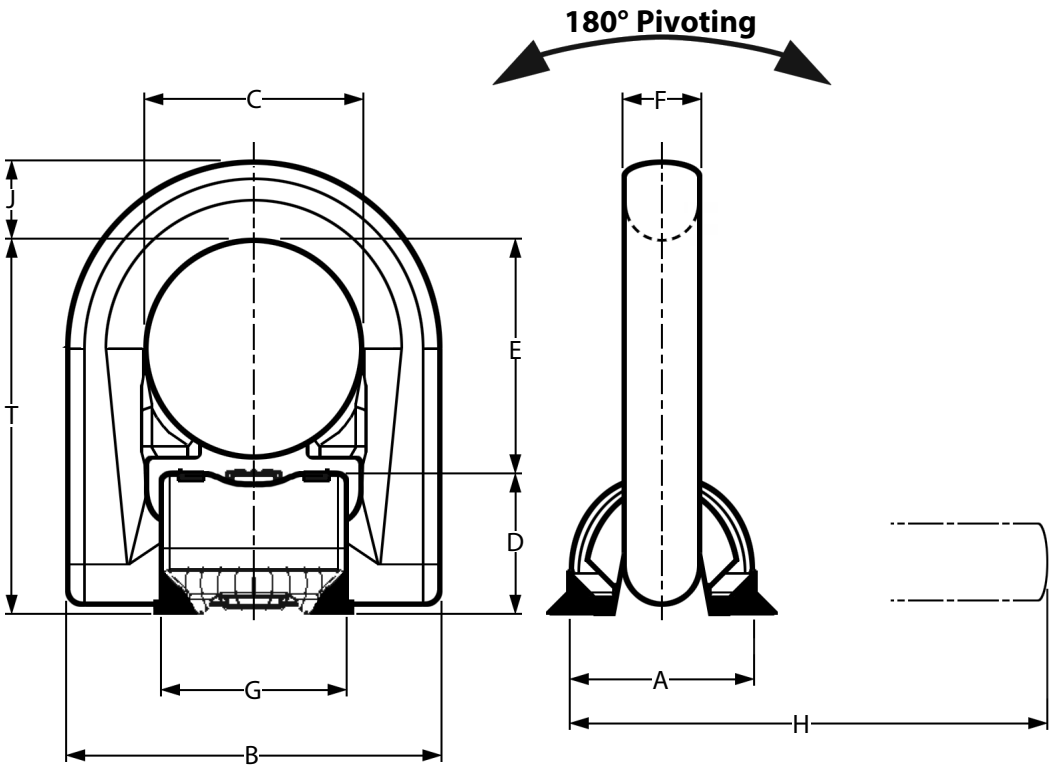
MECHANICAL

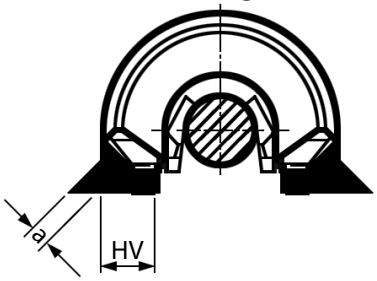
VLBS

Lifting & Lashing Points For Welding

Load Ring : 1.5 - 10t



Weld Arrangement:



Part Number	WLL (t)	A	B	C	D	E	F	G	H	J	T	Weld HV+a◺	Mass kg
VLBS-U-1.5T	1.5	33	66	38	25	40	13.5	33	87	14	65	HV5+3	0.35
VLBS-U-2.5T	2.5	36	77	45	27	48	13.5	40	97	16	75	HV7+3	0.50
VLBS-U-4T	4.0	42	87	51	31	52	16.5	46	112	18	83	HV8+3	0.80
VLBS-U-6.7T	6.7	61	115	67	44	73	22.5	60	157	24	117	HV12+4	1.90
VLBS-U-10T	10.0	75	129	67	55	71	26.5	60	173	27	126	HV16+4	2.90

Material

Forged Suspension Ring: High tensile forged Steel (CrNiMo) to EN 1677, grade 80, electromagnetic crack detected, pink powder coated; meets the requirements of the appropriate safety authorities.
Welding Block: Non-alloy structural Steel (Nr.1.0570) with good machinability and dimensional stability, high toughness and good weldability because of its low carbon content (C <= 0.22 %).
Patented distance lugs assist in achieving the correct root weld.

Minimum Operating Temperature: -20°C

Other Info.

Important: By the special weld design (continuous HV), the requirements of DIN 18800 are fulfilled, i.e., a closed weld avoids corrosion and thus suitable for outdoor use.
A protected spring maintains the load ring in every required position.
The parts are assembled in such a way that they remain captive.
Also available without spring (including a larger capacity 16t WLL), P.O.A.

Features

- Innovative design offers many advantages:
  - up to 50 % higher WLL.
  - rated with a working load limit with a safety factor of 4 from the worst angle of lift. This means the product will break at more than 4 times the Working Load Limit (WLL) (for multi-leg lifts please consult sales).
  - the two protective supporting lugs (inside the load ring) are patented and they improve the connection with the attachment. In addition they protect the clamping spring.
  - the support effect is exceptional, especially if the ring is side loaded or the lifting point is welded on an uneven work piece.
  - Pink powder coating, a VIP recognition attribute and a heat indicator.
- Easy and quick to weld assembly.
- Clearly stamped with the permissible WLL.
- Compact and shapely design.
- High dynamic and static strength.
- The spring reduces vibration induced noise.

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Product information updated June 2017 and subject to change. Please click the product links for prices and availability.
https://amironic.co.il/

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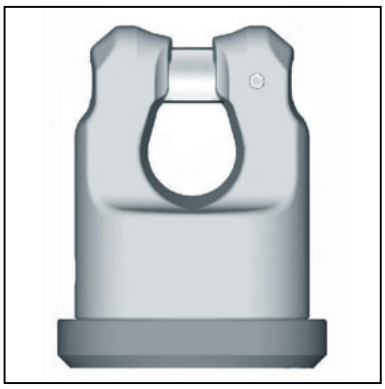
WPP-S
PP
VIP-T B-T

MECHANICAL

Lifting & Lashing Points

Separate Components



Welding PowerPoint

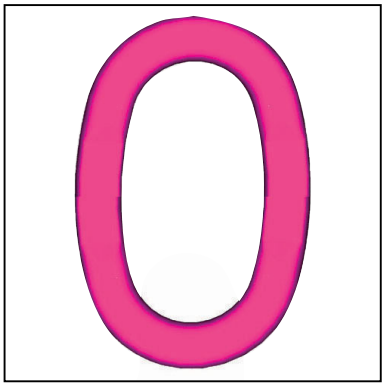
Part Number
WPP-S-0.63T/SEP
WPP-S-1.5T/SEP
WPP-S-2.5T/SEP
WPP-S-4.0T/SEP
WPP-S-5.0T/SEP
WPP-S-8.0T/SEP

PowerPoint Threaded Bolt

Part Number
PP-M12
PP-M16
PP-M20
PP-M24
PP-M30
PP-M36

Cobra Eye Hook

Part Number
VIP-0.63T
VIP-1.5T
VIP-2.5T
VIP-4.0T
VIP-6.5T
VIP-8.0T



PowerPoint B-Link

Part Number
B-0.63T
B-1.5T
B-2.5T
B-4.0T
B-5.0T
B-8.0T

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