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Translation of Original operating manual

pewag winner profilift

PLGW pewag winner profilift gamma supreme/basic lifting point – Grade 10

These lifting points are designed considering this manual as well as the national regulations for lifting and holding the load.
Read the manual carefully before using the lifting points. The user must have access to the operating manual until withdrawal of the connecting links from service. The manual is updated continuously and valid only in the latest version. The manual is available as a download under the following link: www.pewag.com

PLGW Supreme –
tool-free assembling

PLGW Basic –
screw on with tools

Method of lifting										
Number of legs	1	1	2	2	2	2	3+4	3+4	2	3+4
Angle of inclination	0°	90°	0°	90°	0°–45°	45°–60°	0°–45°	45°–60°	asymm.	asymm.

Code	Thread [mm]	Fastening torque [Nm]	Load capacity [kg]									
PLGW 0.3 t	M8	Can be tightened manually	1,000	300	2,000	600	400	300	600	400	300	300
PLGW 0.5 t	M10		1,500	500	3,000	1,000	700	500	1,000	700	500	500
PLGW 0.7 t	M12		2,000	700	4,000	1,400	1,000	700	1,400	1,000	700	700
PLGW 1.5 t	M16		4,000	1,500	8,000	3,000	2,100	1,500	3,000	2,200	1,500	1,500
PLGW 2 t	M20		5,000	2,000	10,000	4,000	2,800	2,000	4,200	3,000	2,000	2,000
PLGW 2.3 t	M20		5,000	2,300	10,000	4,600	3,200	2,300	4,800	3,400	2,300	2,300
PLGW 3 t	M24		6,500	3,000	13,000	6,000	4,200	3,000	6,200	4,500	3,000	3,000
PLGW 3.2 t	M24		6,500	3,200	13,000	6,400	4,500	3,200	6,700	4,800	3,200	3,200
PLGW 4 t	M30		12,000	4,000	24,000	8,000	5,600	4,000	8,200	6,000	4,000	4,000
PLGW 4.9 t	M30		12,000	4,900	24,000	9,800	6,900	4,900	10,300	7,300	4,900	4,900
PLGW 7 t	M36		15,000	7,000	30,000	14,000	9,800	7,000	14,700	10,500	7,000	7,000
PLGW 9 t	M42		22,000	9,000	44,000	18,000	12,600	9,000	18,900	13,500	9,000	9,000
PLGW 12 t	M48		30,000	12,000	60,000	24,000	16,800	12,000	25,000	18,000	12,000	12,000

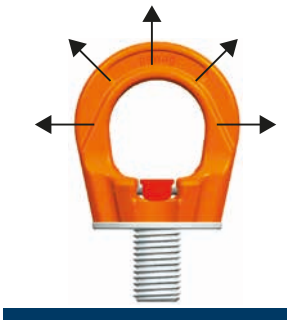
Code	Thread [inch]	Fastening torque [lb/ft]	Load capacity [lbs]									
PLGW U 3/8	3/8"-16	Can be tightened manually	2,400	1,100	4,800	2,200	1,500	1,100	2,200	1,500	1,100	1,100
PLGW U 1/2	1/2"-13		4,400	1,500	8,800	3,000	2,200	1,500	3,000	2,200	1,500	1,500
PLGW U 5/8	5/8"-11		8,800	3,300	17,600	6,600	4,600	3,300	6,600	4,800	3,300	3,300
PLGW U 3/4	3/4"-10		9,900	4,400	19,800	8,800	6,100	4,400	9,200	6,600	4,400	4,400
PLGW U 1	1"-8		11,000	6,600	22,000	13,200	9,200	6,600	13,600	9,900	6,600	6,600
PLGW U 1 1/4	1 1/4"-7		22,000	8,800	44,000	17,600	12,300	8,800	18,000	13,200	8,800	8,800
PLGW U 1 1/2	1 1/2"-6		33,000	15,400	66,000	30,800	21,500	15,400	32,300	23,100	15,400	15,400
PLGW U 1 3/4	1 3/4"-5		40,000	19,800	80,000	39,600	27,700	19,800	41,500	29,700	19,800	19,800

Safety factor 4

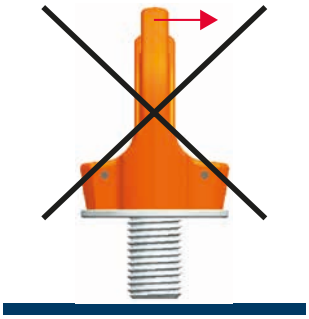
Attention: Subject to technical changes!

Intended use

Load capacity: working load limit according to test certificate or working load limit table in the given directions of tension – see picture 1.
Admissible operating temperature: -40 °C to 200 °C (please note WLL reduction at high temperature).
Impacts: impacts which occur because of e.g. acceleration during lifting and lowering can be unconsidered.
Other: Lifting points have to be mounted only with the included screw. The body is rotatable 360° and must be aligned in the permitted direction of tension before use.



Picture 1: permitted



Picture 2: not permitted

Information for use

- Lifting points should be used by a competent authorised person.
- Visual inspection before first usage (see maintenance instruction).
- Before every usage check for damages on screw and thread – lifting points must be rotatable.
- Load only in the specified direction (see picture 1) with WLL acc. to table.
- Make sure before each use that the lifting point is hand tight (by the lock system or an Allen key).
- Please note restriction in application for eventually appearing difficulties in load.
- Connected lifting gear (e.g. hook) must be flexible in the ring.
- Lifting points must be stored in a clean and dry area.
- PLGW lifting points are not designed to be rotated under load.

Attention:
- Do not overload lifting points. A falling down load may lead to injuries or death!
- Do not use damaged lifting points (see maintenance instruction) – they can fail in operating conditions – load can fall down!

Limits of use

When lifting points are used under other conditions than the one mentioned in Intended use (see above), restrictions on used must be applied.
- Do not use lifting points in connection with acids, bases or their steams. For application in chemical environments, please contact our technical service.
- Do not load lifting points when they come into contact with corners or sharp edges!
- Do not lift people!
- If the load distribution is asymmetrical (unequal angle of the legs of the lifting gear) only count 1-leg as bearing (see load table).

Mounting instruction

Mounting only by competent authorized person.

PLGW Supreme – with latches:
This lifting point has a simple system for tool-free installation:
- To screw the lifting point you fold up the two latches so that they rest completely on the side surfaces of the screw (position ‚A' - see picture 3). The latches are held by a spring in this position.
- Screw in the lifting point until the entire bottom surface touches the load.
- Tighten the lifting point manually.
- Now fold the two latches down to position ‚B' as visible in picture 4. In this position, the latches are also held by the spring in this position.

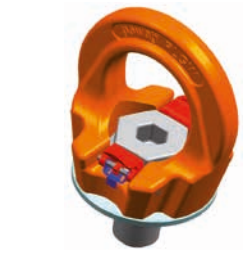
After installation, make sure that it cannot lead to a wrong load by turning the ring in the expected direction of tension.

Demanding conditions

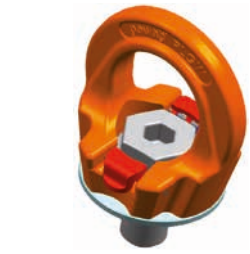
Temperature	below -40 °C	-40 °C to 200 °C	200 °C to 250 °C	250 °C to 350 °C	above 350 °C
Load factor	not permissible	1	0.8	0.75	not permissible
Shock	slight shocks	medium shocks	medium shocks	strong shocks	strong shocks
Load factor	1	0.7	0.7	not permissible	not permissible

* use at temperatures below -40 °C and above 350 °C is forbidden!

PLGW Basic – without latches:
This lifting point has no tool-free mounting system.
The screwing and unscrewing is done by hand tightening with an Allen wrench.



Picture 3: PLGW Supreme dis-/assembly



Picture 4: PLGW Supreme rotatable

- The equipment, where the lifting points are mounted on, has to meet the requirements of the Machinery Directive 2006/42/EC.
- Choose adjustment of lifting points so that you have a symmetric load. Center of gravity must be under the lifting point.
- The base material must be of sufficient strength that the force induced can be absorbed without deformation.
- Choose lifting points with adequate WLLs – see table.
- The screwing area must be flat and be provided with a diameter not smaller than the bottom part of the lifting point. The threaded hole with adequate depth must be in the middle and in a square to ensure that the screw can be screwed in correctly (blind hole). No additional elements (such as washers) between the lifting point and the load must be underlaid.
- Minimum screw penetration:
  1 x M in steel (M = thread size e.g. M20 = 20 mm)
  1,25 x M in cast steel
  2 x M in aluminum
- Threaded hole must be cleaned before screwing.
- PLGW lifting points can also be fixed with an Allen key
- If necessary (e.g. if vibrations occur), use liquid thread adhesives (please note manufacturer's instructions).
- Make sure that the adjustment of the lifting point will not lead to improper loading, e.g. if:
  - There is no possibility to align in the direction of tension
  - The direction of tension is not in the foreseen area acc. to picture 1
- Use only pewag original parts – recognizable by the marking (WLL, thread).
- It is not allowed to modify the lifting point, e.g. welding, heat treatments and surface treatments (galvanising) are prohibited. Also shortening of screw is forbidden.
- Mount only lifting points free from defects.
- Check used lifting points acc. to maintenance instruction before application.
- After assembling, lifting points must be able to rotate properly.
- Do not use any extension when assembling.

Maintenance, Checks, Repairs

- An inspection in accordance with the national standards must be carried out annually by a technical expert. If used frequently under a full load these inspections can be implemented regularly. We also recommend a crack test every two years. The screw must be taken out from the body
- The parts must be free from oil, dirt and rust for inspection and crack test. Adequate cleaning procedures are the ones, which do not overheat, hide failures on surface and cause hydrogen embrittlement or stress crack corrosion
- During inspection check all parts which can influence safety and function, – e.g.:
  - Cracks, notches, deformation, noticeable signs of excessive heat.
  - Abrasion resp. corrosion of more than 10 % of the cross section.

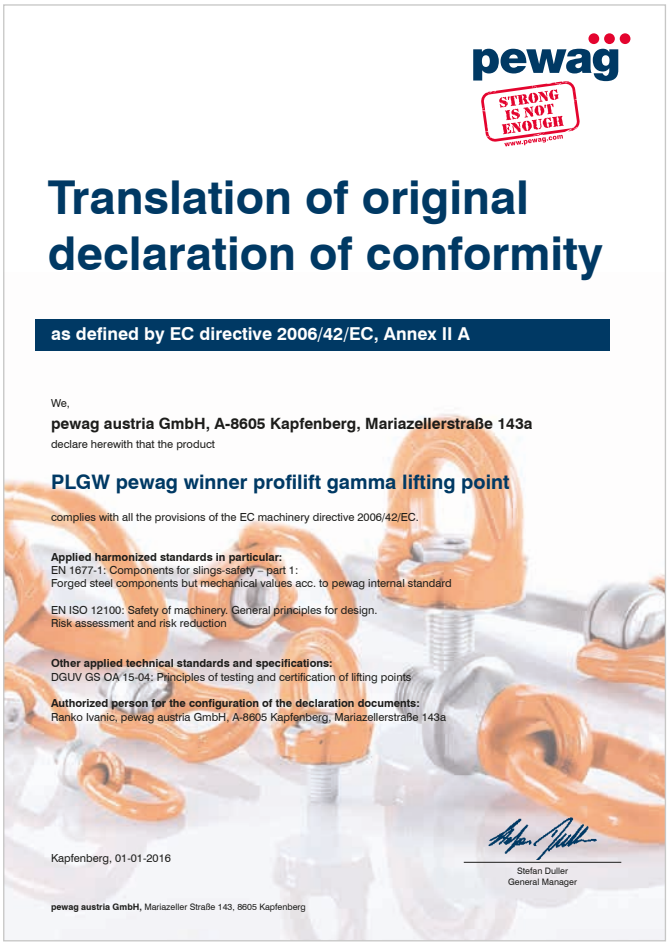
In case of doubt, if the lifting points are damaged, stop using them and have them examined by an expert.

Repairs:
- Maintenance of the lifting points should only be carried out by technical experts.
- If small defects like notches or score marks are visible, they can be carefully removed by using grinders or files. The repaired area has to merge smoothly without sudden changes of the cross-section. When repairing, the cross section must not decrease of thickness by more than 5 %.
- Welding procedures and heat treatments are prohibited.

Each PLGW lifting point is marked with a unique number.

Exact dimensions can be found on our website www.pewag.com under industrial chains/lifting points.

Declaration of conformity



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Translation of original declaration of conformity

as defined by EC directive 2006/42/EC, Annex II A

We,

pewag austria GmbH, A-8605 Kapfenberg, Mariazellerstraße 143a

declare herewith that the product

PLGW pewag winner profilift gamma lifting point

complies with all the provisions of the EC machinery directive 2006/42/EC.

Applied harmonized standards in particular:
EN 1677-1: Components for slings-safety – part 1:
Forged steel components but mechanical values acc. to pewag internal standard

EN ISO 12100: Safety of machinery. General principles for design.
Risk assessment and risk reduction

Other applied technical standards and specifications:
DGUV GS OA 15-04: Principles of testing and certification of lifting points

Authorized person for the configuration of the declaration documents:
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Kapfenberg, 01-01-2016

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