pewag lifting solutions

Translation of original operating manual

pewag winner profilift

PLDW pewag winner profilift delta lifting point

Read this operating manual carefully before using this product, paying particular attention to the sections on safety and assembly. This product is suitable for the lifting and holding of loads, provided that the instructions of this operating manual and all the national regulations are complied with. This product may only be used, once this operating manual has been read and understood in full.

This operating manual is part of the product and must be made available to users throughout the lifetime of the product.

The operating manual must be passed on to later owners or users together with the product. If the product is resold, the reseller must provide the instructions in the language of the target country. This operating manual is subject to an ongoing improvement process and is therefore only valid in its most recent version, which is available for download at www.pewag.com.

The highlighted sections in this operating manual contain information on areas with a particularly high risk potential. Disregarding this information may cause serious injuries or death. Please pay particular attention to these sections.

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Release date: 2025-07-01

This operating manual is valid for:
PLDW pewag winner delta lifting point

Sizes (from – to)	Thread sizes (from – to)
PLDW 0,3t - 55t	M8 - M100
PLDW U3/8 - U2 1/2	3/8“-16 - 2 1/2“-4

For details, see table 1 at the end of the manual

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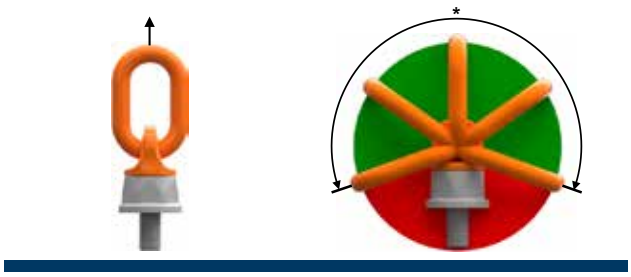
1. SAFETY INSTRUCTIONS

WARNING **A wrongly mounted or damaged lifting point as well as improper use can increase the risk of accidents leading to injuries and/or death! Damaged lifting points (see maintenance instructions) may fail even during normal conditions of use. Such lifting points may not be used.**

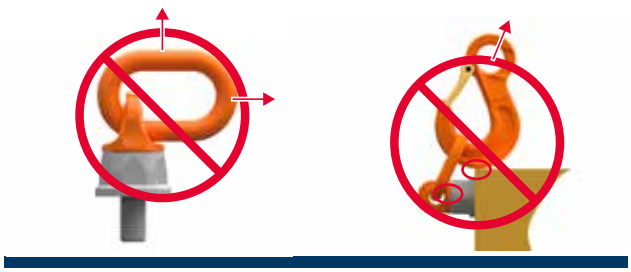
- Only specially trained personnel are allowed to use this product. They must be familiar with the relevant norms and the country-specific regulations.
- The user of this product must be in good health. He/she is not allowed to be under the influence of drugs, alcohol or medication.
- Please make sure that in the event of an emergency, a rescue plan is available that covers all emergencies that may occur during use.
- The product may not be modified in any way.
- All repair and maintenance activities must be performed in accordance with the instructions given by pewag.
- Check for visible damage (deformations, cracks, damaged threads) prior to each use and ensure that the product is functioning correctly – lifting points have to be rotatable (alignable with the load direction).
- This product may not be used for the lifting or securing of persons.

2. Intended use

Purpose: The pewag PLDW is a lifting point that is screwed onto loads so that lifting chain components (hooks, shackles, straps...) may be attached to enable the load to be lifted.
Lashing: The lifting points may also be used as lashing points. Since only a safety factor of 2 has to be taken into account when lashing, the admissible lashing capacity is twice the nominal load capacity:
LC in daN = 2x nominal load capacity in kg (e.g. nominal load capacity 4,000 kg when lifting -> 8000 daN admissible lashing capacity). This product may only be used either for lifting or for lashing. Once a lifting point has been used for lashing, it may no longer be used for lifting (and vice versa). Products that are marked with the admissible lashing capacity instead of the rated load capacity may only be used for lashing and never for lifting.
Target groups: This product may only be used and serviced by properly trained personnel, provided that the instructions of this operating manual and all relevant country-specific regulations are complied with. Repairs, regular inspections and the exchange of parts may only be performed by competent personnel. Also see point 4 of this operating manual.
Load: Loading must always take place in the stated direction (picture 1) with the maximum load capacity according to table 1 and taking into consideration the operating conditions as specified here.



Pic. 1: Permitted directions of load that occur during correct use.
* Ring may not touch the ringholder



Pic. 2: Non-permitted usage

Operating temperature: The long-term permitted ambient temperature must be between -40 °C and +200 °C. In case of usage outside this temperature range, the reduction factors outlined in table 2 must be taken into account.
Impacts: Slight shocks, such as the kind that is caused by acceleration during lifting and lowering of the load, may be disregarded. Stronger shocks are not permitted.

Other information: Use only original parts for the assembling of the lifting point. The ring is 360° rotatable around the screw and must be aligned with the expected direction of pull prior to loading.

This product has a safety factor of 4.

Although the upper part has a ball bearing and rotatable 360°, before usage you should adjust the ring in the correct direction of tension (picture 1). That applies in particular when lifting with multi leg slings. With a non-aligned ring (forbidden load acc. to picture 2), the ring holder could turn suddenly under load, and cause high risk for the load and/or people.

For exact dimensions, refer to our website at www.pewag.com

2.1 Restrictions on use

- These lifting points are not suitable for use in areas with strong corrosive influences (e.g. in the vicinity of sewage water or chemicals). They must not be exposed to acids or caustic solutions and their vapours. For use in environments containing chemicals, please consult our technical service.
- The ring/bracket is not suitable for edge or corner loading.
- Do not use lifting points as a choke-hitch.
- For the load capacities of pewag lifting points to apply, it is assumed that the individual lifting points are placed under load symmetrically. When the load is lifted, this will result in the same angles of inclination of the individual chain legs.
- „In case of asymmetrical loads, you must take into account the following:
  1. The load is less than 80% of the indicated load capacity.
  2. The angles of inclination of all chain legs are not lower than 15° and are very similar (i.e. only differ by a maximum of 5°).
  3. For three- and four-leg lifting chains, it must be ensured that the corresponding plan angles are within 15° of each other.
  If any of these conditions are not met, only one strand may be considered load-bearing (see load capacity table).
- May not be rotated continuously under load.
- The ring may not be folded up and down continuously while under load.

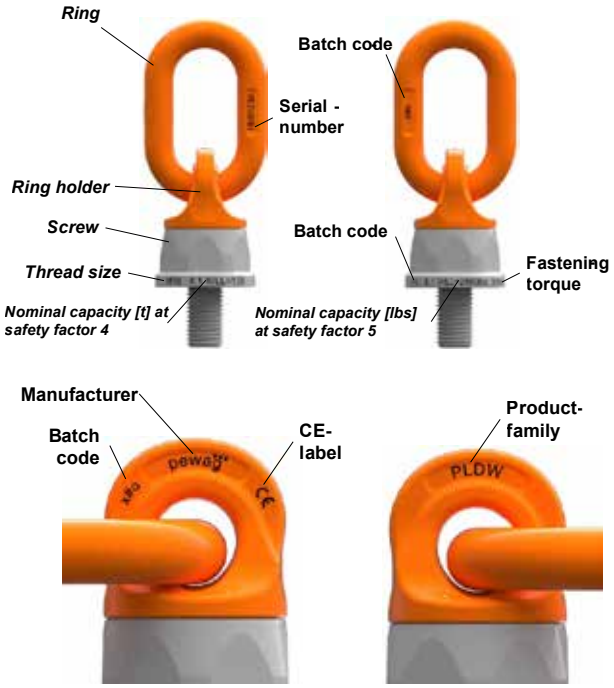
WARNING **The information contained in this operating manual is based on the assumption that no particularly hazardous conditions apply. Such conditions include offshore use and use in areas with nuclear contamination. In such cases, please contact pewag to determine the permissibility of the application and the degree of danger.**

2.2 Foreseeable misuse

- Used by inadequately trained personell.
- Used by personnel who are unable to fully comprehend the language of this operating manual.
- Attachment to components for which no operating manual or proof of strength is present or available.
- Attachment of inappropriate lifting devices.
- Attachment of lifting equipment for which no instruction manual or inspection based on applicable standards is present or available.

2.3 Identification

Every pewag lifting point is labelled with its maximum load capacity for adverse loading conditions as well as the manufacturer's code and batch number. The picture below shows the exact identification details on the product.



Pic. 3: Component descriptions and location of the identification details on the product.

3. Mounting Instructions

3.1 General

- Mounting must only be carried out by persons who have received instructions on the safe use of the product and who have the required knowledge and skills for the task.
- „Only original pewag parts may be used.
  – These are recognisable from the stamp (batch number, manufacturer logo or code PW...).
- Only use non-defective lifting points.
- Used lifting points must be checked according to the maintenance instructions prior to each use.
- Check that the lifting point has been attached according to the assembly instructions during each use.
- Attach lifting points in such a way that they may be reached easily and without obstruction when attaching or removing the lifting element. Check that no hazardous points are created that could endanger the user or impede correct usage (risk of crushing, pinching or collision).
- The attached lifting device must be free to move in the ring.
- Keep lifting points clean and dry. Treat carefully even after use. Do not let them drop to the floor as this may damage the thread or other parts.
- The base material of the object to which the lifting points are to be attached must be strong enough to absorb the

forces that occur without deformations (proof of safety).
- Always choose lifting points with the correct dimension acc. to the load capacity table, depending on the size of the load and the arrangement of the lifting devicess.
- Choose the arrangment of lifting points in such a way that symmetrical loading is assured and the centre of the load is positioned under the lifting point(s).
- When choosing your arrangement, check that there is no risk of improper loading due to any of the following factors:
  - direction of pull is obstructed
  - direction of pull is not within the indicated area (picture1)
- Any severe conditions (see restrictions on use) must be taken into account.
- Always refer to the user manual and mounting instructions for the lifting devices used and, where applicable, also for the load to be lifted.
- For custom-made designs: Take into account the additional information provided and the specifications on the customer`s drawings (where applicable).
- The delivery condition must not be changed. It is not permitted to perform welding, heat and/or surface treatments with material-damaging effects.
- The length of the thread may not be shortened.
- Do not use an extension when assembling.
- Only use the lifting points in a nut thread that is true to gauges.

3.2 Safety measures to be taken by the user

Always take into account the restrictions on use and the maximum load capacity of the lifting points used. Always wear safety gloves when attaching the lifting device. Align the lifting point in the expected direction of pull and leave the hazard area before lifting the load. Slightly tension the chain sling and check that the lifting devices are correctly fitted to the lifting points and that all lifting points are correctly aligned in the direction of pull before lifting the load.

WARNING **Keep a sufficient safety distance during the lifting operation and ensure that the load has been lowered safely before removing the lifting device. Do not overload lifting points! Falling loads may cause injury and/or death!**

3.3 Residual risks

Overloading caused by non-compliance with the maximum load capacity or adverse environmental factors (temperature...). Incorrect assembly of the lifting points may lead to failure, as may the use of non-authorised or damaged parts of the attached lifting device.

3.4 Mounting

- The screw-on surface must be level and have at least the diameter of the contact surface of the lifting point. The sufficiently deep, threaded hole must be at the centre of the contact surface, at a right angle. It must be possible to insert the screw fully (with blind holes).
- Clean the threaded hole prior to each use and check for damage.
- The minimum screw penetration values are:
  M8 to M20:
  1,5 x M for steel (Rm > 360N/mm²)
  1.75 x M for cast steel
  2.5 x M for aluminium
  from M24 up:
  1,2 x M for steel (Rm > 360N/mm²)
  1.5 x M for cast steel
  2.2 x M for aluminium
  (M = thread size, e.g. M20 = 20 mm)
- Additional elements (such as washers) between the lifting point and the load are not permitted.
- Prior to each use, ensure that the lifting point is fully screwed in and that the contact surface is flush with the load.
- For one-off transport, it is admissible to tighten the screw by hand using a spanner.
- If the lifting point is intended to remain permanently attached to the load, it must be tightened with an appropriate tool with a torque as listed in table 1. If necessary (i.e. in case of vibrations), the thread must be secured with a liquid threadlock (e.g. Loctite).
- Should the lifting point be rotated under load when used, please ensure that it is properly fastened with torque.
- After assembly, ensure that there is no risk of incorrect loading by aligning the lifting point in the expected load direction by moving the ring.
- When turning loads, make sure that the lifting device only touches the lifting point on the ring.
- During rotation and turning operations under full load, increased wear may occur on the ring and ring holder. Any sharp edges that develop should be removed as soon as possible.

3.5 Dismounting

To remove the lifting point, unscrew it with a suitable tool. Store the product as described in „Storage“. Take appropriate measures to protect the thread on the load from damage and dirt.

4. Inspection, maintenance, repair

WARNING **The safety of the user is contingent upon the effectiveness and durability of the equipment used. For this reason, ensure that inspections are performed regularly. Damaged lifting points may fail during normal conditions of use, causing the load to fall. Such lifting points may not be used.**

- This product must be inspected by a competent person at least once a year and in accordance with the manufacturer‘s instructions. Depending on the conditions of use and legal stipulations, this interval may be shorter. In case of frequent use, we recommend a crack test every two years.
- During inspection, all parts must be checked for damage that could impact safety and function.
- For the regular inspection and the crack test, all parts must be free from oil, dirt and rust. Appropriate cleaning proces-

ses include those that do not cause overheating, cover up surface defects or cause hydrogen embrittlement or stress crack corrosion.
- Load testing all the way up to the proof force is not permitted for these lifting points.

Competent persons are persons who are capable of assessing the operationality and correct usage of this product, either based on their technical qualifications (e.g. training) or their experience with and sufficient knowledge of the use of lifting points, and who are familiar with the relevant standards and regulations. If you are interested in an expert training module, please contact our technical service.

4.1 Inspection

Before each use, the following checks should be performed:
- The lifting points were selected correctly, based on the size of the load and the lifting devices used (chain sling, angle of inclination, etc.).
- Flawless functioning (rotating and/or folding of the ring) and appearance of parts and the thread.
- After screwing in, the contact surface must fully rest on the load.
- The ring of the lifting point used must be aligned with the expected load direction.
- The locking screw must be in place and must not have become loose.

Regular inspection:
Regular inspections must be performed by the manufacturer or a competent person, in strict accordance with the manufacturer‘s instructions.

4.2 Elimination criteria

- Breakage, deformations, sharp notches or cracks of any kind.
- Signs of excessive heat exposure (e.g. black discolouration, burn marks in the coating).
- Visible damage to the thread that could impair the correct functioning of the product.
- Illegible markings.
- Wear or excessive corrosion, if the admissible cross-sectional reduction of 10 % is exceeded.
- If it is not possible to freely rotate and/or fold the ring after assembly.
- The maximum service life of the product, taking into account the intended use is a maximum of 20,000 load cycles.

⚠ CAUTION	**If there is any doubt on the correct functioning/ safety of the lifting point, it must be discarded!**

4.3 Accident and incident procedure

If the lifting device gets jammed in the ring of the lifting point, do not use force to release it as this may cause damage.
If the lifting point shows signs of deformation (e.g. due to overloading or other unusual events), the product must be removed from service and handed to a competent person for inspection or repair.

4.4 Maintenance

- If necessary, clean all the parts using a damp cloth. Leave the lifting point to air-dry.
- The thread may be cleaned using a wire brush.

4.5 Repairs

- Inspections and repairs need to be fully documented and remain with the product for the duration of its operating life. A documentation reference sheet can be downloaded at www.pewag.com.
- Repairs may only be performed by the manufacturer or a competent person.
- Small cuts, notches and grooves may be removed by careful grinding or filing. After the repair, the treated area must merge smoothly with the surrounding area, without the cross-section changing abruptly. By fully removing the defect, the dimension of the area must not be reduced by more than 5 %.
- Welding and heat treatment is not permitted.

This product is labelled with an individual number in the format „YY/xxxx“. „YY“ is the year (e.g. 19 for 2019) and „xxxx“ is the continuous number that clearly identifies each lifting point of a certain type (e. g. type PLDW 1,5t M16).

5. Storage

This product must be stored in a clean and dry condition and protected against corrosion (e.g. lightly oiled). The lifting point must not be exposed to corrosive, thermal or mechanical influences during storage or transport.
The thread should be protected by an appropriate protective cap or net.

6. Decommisioning

The product has a high metal content and is fully recyclable. At the end of its lifespan, the product must be recycled in accordance with local regulations.

Prior to using this product for the first time, the operating manual must have been read and understood in full.

This declaration becomes invalid with every modification of the product not approved by pewag or if the product is not used in a way described within the user manual.

pewag austria GmbH
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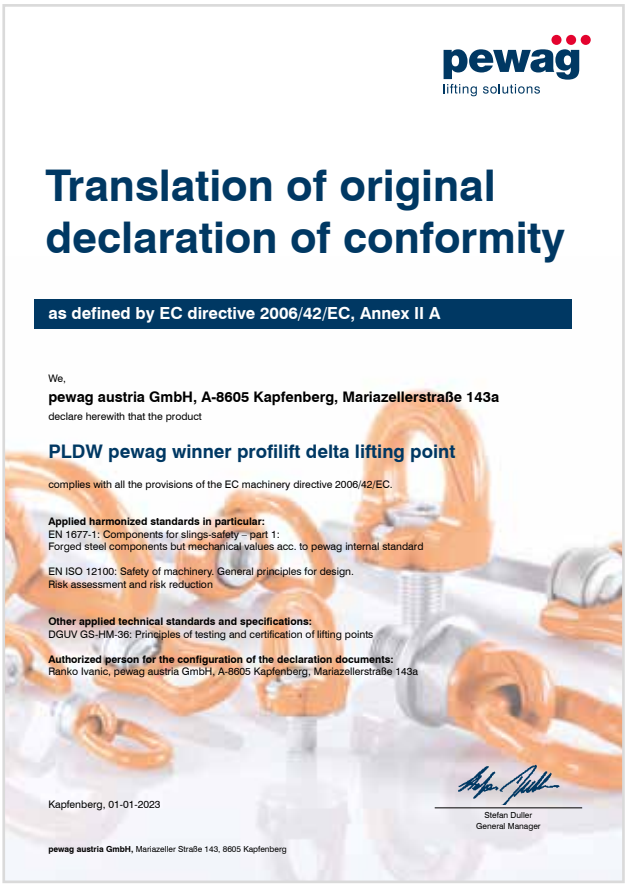
Subject to technical modification and printing errors.
Depending on the surface finish, the illustrations in the manual may differ in color from the delivered product.

Reduction factors

Temperature range	below -40 °C	-40 °C to 200 °C	200 °C to 300 °C	300 °C to 350 °C	more than 350 °C
Reduction factors	Not permitted	1	0,9	0,75	Not permitted
Shock loading	Light shocks		Moderate shocks	Strong shocks	
Reduction factors	1		0,7	Not permitted	

Declaration of conformity



pewag
lifting solutions

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

PLDW pewag winner profilift delta 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-HM-36: Principles of testing and certification of lifting points

Authorized person for the configuration of the declaration documents:
Ranko Ivanic, pewag austria GmbH, A-8605 Kapfenberg, Mariazellerstraße 143a

Kapfenberg, 01-01-2023

Stefan Duller
General Manager

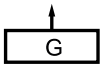
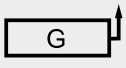
pewag austria GmbH, Mariazeller Straße 143, 8605 Kapfenberg

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°	unsymm.	unsymm.

Code	Thread [mm]	Torque [Nm]	Working load limit (G) [kg]									
PLDW 0,3t	M8	10	600	300	1.200	600	400	300	600	400	300	300
PLDW 0,5t	M10	10	1.200	500	2.400	1.000	700	500	1.000	750	500	500
PLDW 0,7t	M12	15	1.800	700	3.600	1.400	950	700	1.400	1.000	700	700
PLDW 1t	M14	25	2.400	1.000	4.800	2.000	1.400	1.000	2.100	1.500	1.000	1.000
PLDW 1,5t	M16	30	2.800	1.500	5.600	3.000	2.100	1.500	3.100	2.200	1.500	1.500
PLDW 1,5t	M18	40	2.800	1.500	5.600	3.000	2.100	1.500	3.100	2.200	1.500	1.500
PLDW 1,8t	M20	80	2.800	1.800	5.600	3.600	2.500	1.800	3.800	2.700	1.800	1.800
PLDW 2,5t	M20	80	5.000	2.500	10.000	5.000	3.500	2.500	5.300	3.500	2.500	2.500
PLDW 3,5t	M24	150	5.000	3.500	10.000	7.000	4.900	3.500	7.400	5.200	3.500	3.500
PLDW 4t	M24	150	7.000	4.000	14.000	8.000	5.500	4.000	8.400	6.000	4.000	4.000
PLDW 5,3t	M30	230	7.000	5.300	14.000	10.600	7.400	5.300	11.200	7.900	5.300	5.300
PLDW 6,7t	M30	230	10.000	6.700	20.000	13.400	9.400	6.700	14.200	10.000	6.700	6.700
PLDW M36 - 10t	M36	450	12.500	10.000	25.000	20.000	14.100	10.000	21.200	15.000	10.000	10.000
PLDW M42 - 13t	M42	600	16.000	13.000	32.000	26.000	18.300	13.000	27.500	19.500	13.000	13.000
PLDW M45 - 13t	M45	600	16.000	13.000	32.000	26.000	18.300	13.000	27.500	19.500	13.000	13.000
PLDW M48 - 13t	M48	600	16.000	13.000	32.000	26.000	18.300	13.000	27.500	19.500	13.000	13.000
PLDW M52 - 13t	M52	600	16.000	13.000	32.000	26.000	18.300	13.000	27.500	19.500	13.000	13.000
PLDW 20t	M52	700	25.000	20.000	50.000	40.000	28.200	20.000	42.400	30.000	20.000	20.000
PLDW 24t	M56	800	28.000	24.000	56.000	48.000	33.900	24.000	50.900	36.000	24.000	24.000
PLDW 25t	M64	800	28.000	25.000	56.000	50.000	35.300	25.000	53.000	37.500	25.000	25.000
PLDW 40t	M72	1200	60.000	40.000	120.000	80.000	56.500	40.000	84.800	60.000	40.000	40.000
PLDW 45t	M80	1400	60.000	45.000	120.000	90.000	63.600	45.000	95.400	67.500	45.000	45.000
PLDW M90-55t	M90	1500	60.000	55.000	120.000	110.000	77.700	55.000	116.600	82.500	55.000	55.000
PLDW M100-55t	M100	1600	60.000	55.000	120.000	110.000	77.700	55.000	116.600	82.500	55.000	55.000

Code	Thread [inch]	Torque [ft-lbs]	Working load limit (G) [lbs]									
PLDW U 3/8	3/8"-16	7,50	2.640	1.100	5.290	2.200	1.550	1.100	2.330	1.650	1.100	1.100
PLDW U 1/2	1/2"-13	11	3.900	1.500	7.900	3.000	2.100	1.500	3.200	2.300	1.500	1.500
PLDW U 5/8	5/8"-11	22	6.100	3.300	12.300	6.600	4.600	3.300	7.000	4.900	3.300	3.300
PLDW U 3/4	3/4"-10	60	8.800	4.400	17.600	8.800	6.200	4.400	9.300	6.600	4.400	4.400
PLDW U 1	1"-8	110	15.400	8.800	30.800	17.600	12.400	8.800	18.700	13.200	8.800	8.800
PLDW U 1 1/4	1 1/4"-7	170	22.000	14.700	44.000	29.500	20.800	14.700	31.300	22.100	14.700	14.700
PLDW U 1 1/2	1 1/2"-6	330	27.500	17.600	55.100	35.200	24.900	17.600	37.400	26.400	17.600	17.600
PLDW U 1 3/4	1 3/4"-5	440	35.200	22.000	70.500	44.000	31.100	22.000	46.700	33.000	22.000	22.000
PLDW U 2	2"-4,5	440	35.200	27.500	70.500	55.100	38.900	27.500	58.400	41.300	27.500	27.500
PLDW U 2 1/2	2 1/2"-4	600	61.700	39.600	123.400	79.300	56.100	39.600	84.100	59.500	39.600	39.600

Table 1

Straight pull 0° 	Lateral load direction „permitted“ (ring is aligned) 90° 	Lateral load direction “not permitted” (ring is not aligned)
		
Higher working load limit for loading along the screw axis (column”0°” in the working load limit table)	Nominal working load limit for loading vertically to screw axis (column “90°” in the working load limit table)	Application not permitted due to unstable conditions. The ring could turn suddenly while under load - high risk for load and/or persons!

BG/00312