

For extreme lifting applications



# Offshore Lifting – pewag winner offshore

Lifting equipment for container transportation and offshore lifting operations often produce high dynamic forces and excessive impact loadings especially in rough seas. Low temperatures also affect the resilience of the materials causing unsuitable material to become brittle leading to equipment failures.

In addition products that are used offshore tend to corrode due to permanent high air humidity, particularly in warmer sea areas, this may lead to increases in stress corrosion cracking.

The pewag winner offshore programme has been specially developed for use in these extreme conditions, the products being manufactured from higher alloyed materials with special heat treatments to give long service life even at temperatures down to -40°C.

pewag has consistently set industry leading high standards with innovative design, with the focus clearly on manufacturing products with safety, reliability and functionality as the prime motive.

### DNV 2.7-1 approved

All individual parts of a chain sling or wire rope sling for lifting offshore containers must be checked and certified by DNV in accordance with the Standard for Certification 2.7-1. This is possible through extensive case-by-case tests and approvals (costly and time consuming often means a longer delivery time), or by subjecting the products to a type approval by DNV beforehand.

pewag has followed the route of type approval and is now in a position to supply products at short notice (individual components or complete chain slings), which correspond to the Standard for Certification 2.7-1. Due to the type approval, pewag is authorised by DNV to certify/confirm to compliance with regulation.

Therefore, the risk of the case-by-case approval, namely that a product may not pass the test, is omitted.



## Chains



### pewag winner offshore chains

With special heat treatment to increase toughness, crack detection tested, Charpy-V notch impact result min. 42J (27J in the weld) at -20 °C. Stated working load limit applies with safety factor 4. Proof tested at 2.5 x working load limit. Higher alloyed steel than required according to standard. Production according to EN 818-2 and DNV 2.7-1 and/or EN 12079-2.

### OFFSH-DNV 2.7-1 Offshore lifting chain

For the assembly of chain slings for offshore container lifting procedures. Type approved in accordance with DNV 2.7-1. Type approval certificate no. S-8253.

![](_page_3_Figure_5.jpeg)

| Code     | Working load limit<br>[kg] | Breaking strength<br>[kN] | Nominal diameter<br>d<br>[mm] | pitch<br>t<br>[mm] | Internal width<br>b1 min.<br>[mm] | External width<br>b2 max.<br>[mm] | Weight<br>[kg/m] |
|----------|----------------------------|---------------------------|-------------------------------|--------------------|-----------------------------------|-----------------------------------|------------------|
| OFFSH 10 | 3,150                      | 126                       | 10                            | 30                 | 14                                | 36                                | 2.30             |
| OFFSH 13 | 5,300                      | 212                       | 13                            | 39                 | 18                                | 47                                | 4.20             |
| OFFSH 16 | 8,000                      | 322                       | 16                            | 48                 | 22                                | 58                                | 5.90             |
| OFFSH 19 | 11,200                     | 454                       | 19                            | 57                 | 27                                | 69                                | 8.40             |
| OFFSH 22 | 15,000                     | 608                       | 22                            | 66                 | 30                                | 79                                | 11.20            |
| OFFSH 26 | 21,200                     | 849                       | 26                            | 78                 | 35                                | 94                                | 15.50            |
| OFFSH 32 | 31,500                     | 1,290                     | 32                            | 96                 | 43                                | 115                               | 24.10            |

![](_page_3_Picture_8.jpeg)

![](_page_4_Picture_0.jpeg)

Master links and subassemblies

![](_page_4_Picture_3.jpeg)

## pewag winner offshore master links and subassemblies

With special heat treatment to increase toughness, crack tested, Charpy-V notch impact result min. 42 J (27 J in the weld) at -40 °C (DNV 2.7-1 only demands -20 °C). Stated working load limit applies at safety factor 4 and 5 (apart from BW-DNV 2.7-1, VW-DNV 2.7-1). Proof tested at 2.5 x working load limit. Higher alloyed steel than required according to standard. Production similar to EN 1677-4 and DNV 2.7-1 and/or EN 12079-2.

Stamped with DNV 2.7-1 for clear identification.

## AW-DNV 2.7-1 Offshore master link

Master link for offshore container lifting purposes in welded chain slings/or wire rope slings.

For manufacture of I-leg and II-leg slings. Allocation to max. usable crane hooks according to DIN 15401 stated in table.

CE marking. Type approved in accordance with DNV 2.7-1. Type approval certificate no. S-8254.

![](_page_5_Picture_8.jpeg)

![](_page_5_Picture_9.jpeg)

| Code            | WLL*<br>Standard EN<br>[tons] | Test force<br>[kN] | Breaking force<br>SF 1:5<br>[kN] | Usable up to single<br>hook in accordance<br>with DIN 15401 | d<br>[mm] | t<br>[mm] | w<br>[mm] | Weight<br>[kg/<br>piece] |
|-----------------|-------------------------------|--------------------|----------------------------------|---|-----------|-----------|-----------|--------------------------|
| AW 16-DNV 2.7-1 | 3.50                          | 85.8               | 172                              | No. 2.5   | 16        | 110       | 60        | 0.58                     |
| AW 18-DNV 2.7-1 | 5.00                          | 123                | 245                              | No. 5   | 19        | 135       | 75        | 0.92                     |
| AW 22-DNV 2.7-1 | 7.60                          | 186                | 373                              | No. 6   | 23        | 160       | 90        | 1.59                     |
| AW 26-DNV 2.7-1 | 10.90                         | 267                | 535                              | No. 8   | 27        | 180       | 100       | 2.46                     |
| AW 32-DNV 2.7-1 | 16.40                         | 402                | 804                              | No. 10  | 33        | 200       | 110       | 4.04                     |
| AW 36-DNV 2.7-1 | 25.60                         | 628                | 1,256                            | No. 16  | 36        | 260       | 140       | 6.22                     |

![](_page_5_Picture_13.jpeg)

## MW-DNV 2.7-1 Enlarged Offshore master link

Sometimes standard master links are too narrow for wire rope slings, meaning that wire rope thimbles don't have sufficient space and/or room. It can also be the case that rings are too narrow for large crane hooks.

Master link for offshore container lifting purposes in welded chain slings/or wire rope slings. Particularly suited for wire rope slings due to the larger width compared to AW-DNV 2.7-1, to give space for wire rope thimbles. Can be used for larger crane hooks as AW-DNV 2.7-1 with comparable thickness.

For manufacture of I-leg and II-leg slings. Allocation to max. usable crane hooks according to DIN 15401 stated in table.

#### CE marking.

Type approved in accordance with DNV 2.7-1. Type approval certificate no. S-8254.

![](_page_6_Picture_8.jpeg)

| Code            | WLL*<br>Standard EN<br>[tons] | Test force<br>[kN] | Breaking force<br>SF 1:5<br>[kN] | Usable up to single<br>hook in accordance<br>with DIN 15401 | d<br>[mm] | t<br>[mm] | w<br>[mm] | Weight<br>[kg/<br>piece] |
|-----------------|-------------------------------|--------------------|----------------------------------|---|-----------|-----------|-----------|--------------------------|
| MW 18-DNV 2.7-1 | 4.20                          | 103                | 206                              | No. 6   | 19        | 160       | 95        | 1.09                     |
| MW 22-DNV 2.7-1 | 6.70                          | 164                | 329                              | No. 10  | 23        | 170       | 105       | 1.74                     |
| MW 26-DNV 2.7-1 | 10.60                         | 260                | 520                              | No. 10  | 27        | 190       | 110       | 2.65                     |
| MW 32-DNV 2.7-1 | 16.00                         | 392                | 785                              | No. 12  | 33        | 230       | 130       | 4.75                     |
| MW 36-DNV 2.7-1 | 24.00                         | 589                | 1,177                            | No. 20  | 38        | 275       | 150       | 7.48                     |

## AOS-DNV 2.7-1 Offshore master link

Sometimes standard master links are too narrow for wire rope slings, meaning that wire rope thimbles don't have sufficient space and/or room for manoeuvre. It can also be the case, that rings are too narrow for large crane hooks.

Master link for offshore container lifting purposes in welded chain slings/or wire rope slings. Particularly suited for wire rope slings due to the larger width compared to AW-DNV 2.7-1, to give space for wire rope thimbles. Can be used for larger crane hooks as AW-DNV 2.7-1 and MW-DNV 2.7-1 with comparable thickness.

For manufacture of I-leg and II-leg slings. Allocation to max. usable crane hooks according to DIN 15401 stated in table.

#### CE marking.

Type approved in accordance with DNV 2.7-1. Type approval certificate no. S-8254.

![](_page_7_Picture_7.jpeg)

| Code   | WLL*<br>Standard EN<br>[tons] | Test force<br>[kN] | Breaking force<br>SF 1:5<br>[kN] | Usable up to single<br>hook in accordance<br>with DIN 15401 | d<br>[mm] | t<br>[mm] | w<br>[mm] | Weight<br>[kg/<br>piece] |
|--------|-------------------------------|--------------------|----------------------------------|---|-----------|-----------|-----------|--------------------------|
| AOS 23 | 6.70                          | 164                | 329                              | No. 16  | 23        | 270       | 140       | 2.51                     |
| AOS 25 | 8.90                          | 218                | 437                              | No. 16  | 25        | 270       | 140       | 2.99                     |
| AOS 28 | 14.50                         | 356                | 711                              | No. 16  | 28        | 270       | 140       | 3.80                     |
| AOS 33 | 17.80                         | 437                | 873                              | No. 16  | 33        | 270       | 140       | 5.39                     |
| AOS 36 | 24.60                         | 603                | 1,207                            | No. 16  | 36        | 270       | 140       | 6.50                     |
| AOS 40 | 32.00                         | 785                | 1,570                            | No. 20  | 40        | 275       | 150       | 8.35                     |
| AOS 45 | 38.30                         | 939                | 1,879                            | No. 25  | 45        | 340       | 180       | 12.90                    |
| AOS 50 | 45.40                         | 1,113              | 2,227                            | No. 32  | 50        | 350       | 190       | 16.70                    |
| AOS 56 | 67.00                         | 1,643              | 3,286                            | No. 32  | 56        | 400       | 200       | 23.28                    |
| AOS 70 | 85.00                         | 2,085              | 4,169                            | No. 50  | 70        | 460       | 250       | 43.40                    |

![](_page_8_Picture_1.jpeg)

## BW-DNV 2.7-1 Offshore transition link

Transition link for offshore container lifting purposes in welded chain slings.

Connection link for individual chain legs and transition link in IV-leg master link assemblies VW-DNV 2.7-1.

Stated working load limit applies for safety factor 4. Type approved in accordance with DNV 2.7-1. Type approval certificate no. S-8254.

![](_page_8_Picture_6.jpeg)

| Code            | WLL<br>Standard EN<br>[tons] | Test<br>force<br>[kN] | Breaking force<br>SF 1:4<br>[kN] | d<br>[mm] | t<br>[mm] | w<br>[mm] | Weight<br>[kg/<br>piece] |
|-----------------|------------------------------|-----------------------|----------------------------------|-----------|-----------|-----------|--------------------------|
| BW 10-DNV 2.7-1 | 2.00                         | 49.1                  | 78.6                             | 10        | 44        | 20        | 0.09                     |
| BW 13-DNV 2.7-1 | 3.15                         | 77,3                  | 124                              | 13        | 54        | 25        | 0.17                     |
| BW 16-DNV 2.7-1 | 5.40                         | 133                   | 212                              | 17        | 70        | 34        | 0.36                     |
| BW 20-DNV 2.7-1 | 8.50                         | 208                   | 334                              | 20        | 85        | 40        | 0.68                     |
| BW 22-DNV 2.7-1 | 11.40                        | 280                   | 447                              | 23        | 115       | 50        | 1.16                     |
| BW 26-DNV 2.7-1 | 16.00                        | 392                   | 628                              | 27        | 140       | 65        | 1.92                     |
| BW 32-DNV 2.7-1 | 22.40                        | 549                   | 879                              | 33        | 150       | 70        | 3.16                     |
| BW 36-DNV 2.7-1 | 30.00                        | 736                   | 1,177                            | 36        | 170       | 75        | 4.12                     |
| BW 45-DNV 2.7-1 | 42.40                        | 1,040                 | 1,664                            | 45        | 170       | 80        | 7.15                     |
| BW 50-DNV 2.7-1 | 63.00                        | 1,545                 | 2,472                            | 50        | 200       | 100       | 10.8                     |

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## BOS-DNV 2.7-1 Offshore transition link

Standard transition links are mostly too narrow for wire rope slings, meaning that wire rope thimbles don't have sufficient space and/or room.

Transition link for offshore container lifting purposes in welded chain slings. Particularly suited for wire rope slings, due to the inner width to give space for wire rope thimbles.

Connection link for individual chain legs and transition link in IV-leg master link assemblies VOS-DNV 2.7-1.

Type approved in accordance with DNV 2.7-1. Type approval certificate no. S-8254.

![](_page_9_Picture_6.jpeg)

| Code   | WLL*<br>Standard EN<br>[tons] | Test<br>force<br>[kN] | Breaking force<br>SF 1:5<br>[kN] | d<br>[mm] | t<br>[mm] | w<br>[mm] | Weight<br>[kg/<br>piece] |
|--------|-------------------------------|-----------------------|----------------------------------|-----------|-----------|-----------|--------------------------|
| BOS 17 | 5.06                          | 124                   | 248                              | 17        | 140       | 80        | 0.75                     |
| BOS 19 | 6.71                          | 165                   | 329                              | 19        | 135       | 75        | 0.93                     |
| BOS 23 | 10.94                         | 268                   | 537                              | 23        | 180       | 100       | 1.78                     |
| BOS 27 | 12.91                         | 317                   | 633                              | 27        | 180       | 100       | 2.51                     |
| BOS 30 | 18.57                         | 455                   | 911                              | 30        | 190       | 110       | 3.32                     |

\* Stated working load limit applies at safety factor 4 and 5.

## VW-DNV 2.7-1 Offshore master link assembly

Master link assembly for offshore container lifting purposes in welded chain slings.

For the manufacture of IV-leg chain slings. Allocation to max. usable crane hooks according to DIN 15401 stated in table. Stated working load limit applies for safety factor 4.

#### CE marking.

Links type approved in accordance with DNV 2.7-1. Type approval certificate no. S-8254.

![](_page_9_Picture_14.jpeg)

| Code            | Consisting of                        | WLL<br>Standard EN | Usable up to<br>single hook in<br>accordance with | e    | t    | w    | Weight<br>[kg/ |
|-----------------|--------------------------------------|--------------------|---|------|------|------|----------------|
|                 |                                      | [tons]             | DIN 15401   | [mm] | [mm] | [mm] | piece]         |
| VW 13-DNV 2.7-1 | AW 32-DNV 2.7-1 + 2x BW 22-DNV 2.7-1 | 14.40              | No. 10  | 315  | 200  | 110  | 6.36           |
| VW 16-DNV 2.7-1 | AW 36-DNV 2.7-1 + 2x BW 26-DNV 2.7-1 | 21.80              | No. 16  | 400  | 260  | 140  | 10.06          |
| VW 19-DNV 2.7-1 | AW 50-DNV 2.7-1 + 2x BW 32-DNV 2.7-1 | 30.50              | No. 32  | 500  | 350  | 190  | 22.87          |
| VW 22-DNV 2.7-1 | AW 50-DNV 2.7-1 + 2x BW 36-DNV 2.7-1 | 40.80              | No. 32  | 520  | 350  | 190  | 24.79          |
| VW 26-DNV 2.7-1 | AW 56-DNV 2.7-1 + 2x BW 45-DNV 2.7-1 | 57.60              | No. 32  | 570  | 400  | 200  | 37.61          |
| VW 32-DNV 2.7-1 | AW 72-DNV 2.7-1 + 2x BW 50-DNV 2.7-1 | 85.00              | No. 50  | 660  | 460  | 250  | 64.71          |

![](_page_10_Picture_1.jpeg)

e = t+t1

w1

## VAMW-DNV 2.7-1 Offshore master link assembly

Standard transition links are normally too narrow for wire rope slings, meaning that wire rope thimbles don't have sufficient space and/or room.

Master link assembly for offshore container lifting purposes in welded chain slings and/or wire rope slings. Enlarged offshore master links MW-DNV 2.7-1 are used as transition links. Particularly suited to wire rope slings, due to the inner width to give space for wire rope thimbles.

For the manufacture of IV-leg chain and wire rope slings. Allocation to max. usable crane hooks according to DIN 15401 stated in table.

#### CE marking.

Links type approved in accordance with DNV 2.7-1. Type approval certificate no. S-8254.

| Code              | Consisting of                           | WLL*<br>Standard EN<br>[tons] | Usable up to<br>single hook in<br>accordance with<br>DIN 15401 | e<br>[mm] | d<br>[mm] | t<br>[mm] | w<br>[mm] | d1<br>[mm] | t1<br>[mm] | w1<br>[mm] | Weight<br>[kg/<br>piece] |
|-------------------|---|-------------------------------|--|-----------|-----------|-----------|-----------|------------|------------|------------|--------------------------|
| VAMW 10-DNV 2.7-1 | AW 32-DNV 2.7-1 +<br>2x MW 22-DNV 2.7-1 | 8.80                          | No. 10   | 370       | 33        | 200       | 110       | 23         | 170        | 105        | 7.52                     |
| VAMW 13-DNV 2.7-1 | AW 36-DNV 2.7-1 +<br>2x MW 26-DNV 2.7-1 | 14.00                         | No. 16   | 450       | 36        | 260       | 140       | 27         | 190        | 110        | 11.52                    |
| VAMW 16-DNV 2.7-1 | AW 45-DNV 2.7-1 +<br>2x MW 32-DNV 2.7-1 | 21.20                         | No. 25   | 570       | 45        | 340       | 180       | 33         | 230        | 130        | 22.32                    |
| VAMW 19-DNV 2.7-1 | AW 50-DNV 2.7-1 +<br>2x MW 36-DNV 2.7-1 | 31.80                         | No. 32   | 625       | 50        | 350       | 190       | 38         | 275        | 150        | 31.51                    |

## VOS-DNV 2.7-1 Offshore master link assembly

Standard master links are normally too narrow, meaning that they don't fit correctly/optimally on large crane hooks. Standard transition links are mostly too narrow for wire rope slings, meaning that wire rope thimbles don't have sufficient space and/or room.

Master link assembly for offshore container lifting purposes in welded chain slings and/or wire rope slings. AOS type master links are used as the main link. Therefore, they can mostly be used for larger crane hooks than in VW-DNV 2.7-1 and VAMW-DNV 2.7-1 with comparable thickness. BOS are used as transition links. Particularly suited to wire rope slings, due to the inner width to give space for wire rope thimbles.

For the manufacture of IV-leg chain and wire rope slings. Allocation to max. usable crane hooks according to DIN 15401 stated in table.

CE marking.

Links type approved in accordance with DNV 2.7-1. Type approval certificate no. S-8254.

![](_page_11_Picture_7.jpeg)

| Code      | Consisting of      | WLL*<br>Standard | Usable up to single hook in  | е    | d    | t    | w    | d1   | t1   | w1   | Weight         |
|-----------|--------------------|------------------|------------------------------|------|------|------|------|------|------|------|----------------|
|           |                    | EN<br>[tons]     | accordance<br>with DIN 15401 | [mm] | [kg/<br>piece] |
| VOS 23/17 | AOS 23 + 2x BOS 17 | 6.70             | No. 16                       | 410  | 23   | 270  | 140  | 17   | 140  | 80   | 4.03           |
| VOS 25/19 | AOS 25 + 2x BOS 19 | 8.90             | No. 16                       | 405  | 25   | 270  | 140  | 19   | 135  | 75   | 4.84           |
| VOS 28/23 | AOS 28 + 2x BOS 23 | 14.50            | No. 16                       | 450  | 28   | 270  | 140  | 23   | 180  | 100  | 7.37           |
| VOS 33/27 | AOS 33 + 2x BOS 27 | 17.10            | No. 16                       | 450  | 33   | 270  | 140  | 27   | 180  | 100  | 10.41          |
| VOS 36/30 | AOS 36 + 2x BOS 30 | 24.10            | No. 16                       | 460  | 36   | 270  | 140  | 30   | 190  | 110  | 13.15          |
| VOS 40/33 | AOS 40 + 2x AOS 33 | 28.10            | No. 20                       | 545  | 40   | 275  | 150  | 33   | 270  | 140  | 19.14          |
| VOS 45/36 | AOS 45 + 2x AOS 36 | 38.30            | No. 25                       | 610  | 45   | 340  | 180  | 36   | 270  | 140  | 25.81          |
| VOS 50/40 | AOS 50 + 2x AOS 40 | 45.00            | No. 32                       | 625  | 50   | 350  | 190  | 40   | 275  | 150  | 33.26          |
| VOS 56/50 | AOS 56 + 2x AOS 50 | 67.00            | No. 32                       | 750  | 56   | 400  | 200  | 50   | 350  | 190  | 56.39          |
| VOS 70/56 | AOS 70 + 2x AOS 56 | 85.00            | No. 50                       | 860  | 70   | 460  | 250  | 56   | 400  | 200  | 89.62          |

![](_page_12_Picture_0.jpeg)

Chain slings

![](_page_12_Picture_3.jpeg)

## pewag winner offshore standard chain slings

Chain slings for lifting containers in offshore use, welded.

With special heat treatment to increase toughness, crack detection tested, Charpy-V notch impact result min. 42 J (27 J in the weld) at -20 °C . Proof tested at 2.5 x working load limit. Higher alloyed steel than required according to standard. Production similar to EN 818-4 and DNV 2.7-1 and/or EN 12079-2.

Supplied with complete documentation in accordance with DNV 2.7-1. CE marking. Type approved in accordance with DNV 2.7-1. Type approval certificate no. S-8255.

![](_page_13_Figure_5.jpeg)

|                   | l-leg<br>and forerunner | ll-leg cl | nains       |     |     |     | IV-leg chain | s and 2 x II-le | g chains |     |     |
|-------------------|-------------------------|-----------|-------------|-----|-----|-----|--------------|-----------------|----------|-----|-----|
|                   |                         |           | B           | R   |     |     | B            |                 |          | B   |     |
| Inclination angle | -                       | 45°       | <b>40</b> ° | 35° | 30° | 25° | 45°          | <b>40</b> °     | 35°      | 30° | 25° |

| Code     | d  |        | Sling working load limit based on EN 818-4 (kg) |        |        |        |        |        |        |        |        |        |  |  |
|----------|----|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| OFFSH 10 | 10 | 3,150  | 4,500   | 4,800  | 5,200  | 5,500  | 5,700  | 6,700  | 7,240  | 7,700  | 8,200  | 8,600  |  |  |
| OFFSH 13 | 13 | 5,300  | 7,500   | 8,100  | 8,700  | 9,200  | 9,600  | 11,200 | 12,200 | 13,000 | 13,800 | 14,400 |  |  |
| OFFSH 16 | 16 | 8,000  | 11,300  | 12,300 | 13,100 | 13,900 | 14,500 | 17,000 | 18,400 | 19,700 | 20,800 | 21,800 |  |  |
| OFFSH 19 | 19 | 11,200 | 15,800  | 17,200 | 18,300 | 19,400 | 20,300 | 23,800 | 25,700 | 27,500 | 29,100 | 30,500 |  |  |
| OFFSH 22 | 22 | 15,000 | 21,200  | 23,000 | 24,600 | 26,000 | 27,200 | 31,800 | 34,500 | 36,900 | 39,000 | 40,800 |  |  |
| OFFSH 26 | 26 | 21,200 | 30,000  | 32,500 | 34,700 | 36,700 | 38,400 | 45,000 | 48,700 | 52,100 | 55,100 | 57,600 |  |  |
| OFFSH 32 | 32 | 31,500 | 44,500  | 48,300 | 51,600 | 54,600 | 57,100 | 66,800 | 72,400 | 77,400 | 81,800 | 85,000 |  |  |

| Inclination | angle | -      | 45°       | <b>40</b> ° | 35°        | <b>30</b> ° | 25°       | 45°           | <b>40</b> ° | 35°             | <b>30</b> °  | 25°    |
|-------------|-------|--------|-----------|-------------|------------|-------------|-----------|---------------|-------------|-----------------|--------------|--------|
| Code        | d     | Sling  | , working | load lim    | it in acco | rdance w    | ith EN 81 | 8-4 divided b | y enhanceme | nt factor in ac | cordance wit | h      |
|             |       |        |           |             | D          | NV 2.7-1    | table 8-1 | = max. conta  | iner weight |                 |              |        |
| OFFSH 10    | 10    | -      | -         | -           | -          | -           | -         | -             | 2,500       | 2,900           | 3,300        | 3,700  |
| OFFSH 13    | 13    | -      | 2,700     | 3,200       | 3,800      | 4,300       | 4,800     | 6,400         | 7,200       | 7,900           | 8,700        | 9,300  |
| OFFSH 16    | 16    | 3,100  | 6,500     | 7,300       | 8,000      | 8,800       | 9,400     | 12,000        | 13,800      | 15,500          | 16,900       | 18,200 |
| OFFSH 19    | 19    | 6,400  | 10,700    | 12,200      | 13,600     | 15,200      | 16,200    | 20,800        | 22,900      | 24,800          | 26,300       | 27,600 |
| OFFSH 22    | 22    | 9,900  | 17,400    | 20,000      | 21,700     | 23,200      | 24,500    | 28,800        | 31,200      | 33,400          | 35,300       | 36,900 |
| OFFSH 26    | 26    | 17,400 | 27,100    | 29,400      | 31,400     | 33,200      | 34,700    | 40,700        | 44,100      | 47,100          | 49,900       | 52,100 |
| OFFSH 32    | 32    | 28,500 | 40,300    | 43,700      | 46,700     | 49,400      | 51,700    | 60,500        | 65,500      | 70,100          | 74,100       | 77,000 |

![](_page_14_Picture_1.jpeg)

## pewag winner offshore standard chain slings

The types shown are common offshore container chain slings. For the desired length, the usual tolerance is +2 chain links. Special solutions on request.

![](_page_14_Picture_4.jpeg)

OFFSH I A-B

![](_page_14_Picture_6.jpeg)

OFFSH II A-B

![](_page_14_Figure_8.jpeg)

![](_page_14_Picture_9.jpeg)

![](_page_14_Figure_10.jpeg)

OFFFSH II A-B used in pairs

OFFSH IV A-B with forerunner

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![](_page_15_Picture_0.jpeg)

Helevar Comércio e Importação de Produtos Metalúrgicos Ltda Endereço: Francisco Silveira Bittencourt, 1359 Prédio 12 CEP: 91150-010 Bairro Sarandi – Porto Alegre – RS – Brasil Fone: +55 51 3364 6211 Site: www.helevar.com.br Email: contato@helevar.com.br

![](_page_15_Picture_2.jpeg)

![](_page_15_Picture_3.jpeg)

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L

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![](_page_15_Picture_6.jpeg)

![](_page_15_Picture_7.jpeg)

![](_page_15_Picture_8.jpeg)

![](_page_15_Picture_9.jpeg)