



 Onderstaand assortimentsoverzicht geeft een indruk van de mogelijkheden van GNS Nederland. Gezien de enorme diversiteit aan afmetingen is enkel melding gemaakt van leverbare uitvoeringen en drukgroepen. De producten zijn leverbaar in DIN, EN en ASME/ANSI kwaliteiten. Desgewenst met certificaten volgens EN10204, aanvullende PMI tests e.d..

Bent u benieuwd naar de mogelijkheden? Schroom niet om ons te benaderen. We staan u graag te woord en willen graag met u meedenken over uw materiaal-behoefte. Onze mogelijkheden zullen u verrassen.

 Below mentioned program overview gives an impression of the possibilities of GNS. Given the enormous diversity in dimensions there is only mention made of available varieties. The products are available in DIN, EN and ASME / ANSI qualities. optionally with certificates according to EN 10204, additional PMI tests etc.

Are you curious about the possibilities? Please feel free to contact us. We're always ready to help and work closely with our customers to find the right materials and solutions for their specific needs. You might be surprised by what we have to offer.

## Aluminium flenzen / Aluminium Flanschen / Aluminium flanges

### 1: Vergelijkingstabel / Vergleichstabelle / comparison chart

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#### 1.1 Buitenmaten inch / mm met schedule wanddikte afmetingen.

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Außenmaßen inch / mm mit Schedule Wandstärken

Outside dimensions inch / mm with schedule wall thicknesses

### 2: Aluminium DIN / EN Flenzen | Aluminium DIN / EN Flanschen | Aluminium DIN / EN Flanges

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#### 2.1 Voorlasflenzen / Vlakke lasflenzen / Overschuifflenzen / Blindflenzen / Draadflenzen

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Vorschweißflanschen / Glatte Flanschen / Lose Flanschen / Blindflanschen / Gewindeflanschen

Steel Welding neck flanges / Slip-On flanges / Lap-Joint flanges / Blindflanges / Threaded flanges

### 3: Aluminium ASTM / ASME Flenzen | Alu ASTM / ASME Flanschen | Alu ASTM / ASME Flanges

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#### 3.1 Voorlasflenzen / Vlakke lasflenzen / Overschuifflenzen / Blindflenzen / Draadflenzen

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Vorschweißflanschen / Glatte Flanschen / Lose Flanschen / Blindflanschen / Gewindeflanschen

Steel Welding neck flanges / Slip-On flanges / Lap-Joint flanges / Blindflanges / Threaded flanges



## 1 Overzichtstabel / Übersichtstabelle / Overview table

### 1.1 Aansluitmaten inch / mm met **schedule** wanddikte afmetingen.

Anschlußmaße inch / mm mit **schedule** Wandstärken.

Connection dimensions inch / mm with **schedule** wall thicknesses.

| DN<br>NW | NPS<br>(inch) | EN /<br>ISO<br>(mm) | DIN<br>Reihe 1 | (mm) *<br>Reihe 2 | ANSI<br>ASME<br>(mm) | Schedule (mm) |      |    |      |      |    |      |     |     |       |       |  |  |  |  |  |  |  |
|----------|---------------|---------------------|----------------|-------------------|----------------------|---------------|------|----|------|------|----|------|-----|-----|-------|-------|--|--|--|--|--|--|--|
|          |               |                     |                |                   |                      | 5             | 10   | 20 | 30   | 40   | 60 | 80   | 100 | 120 | 160   | XXS   |  |  |  |  |  |  |  |
|          |               |                     |                |                   |                      |               | 10s  |    |      | Std  |    | XS   |     |     |       |       |  |  |  |  |  |  |  |
| 6        | 1/8           | 10,2                | 10,2           | -                 | 10,29                | 0,89          | 1,24 |    | 1,45 | 1,73 |    | 2,41 |     |     |       |       |  |  |  |  |  |  |  |
| 8        | 1/4           | 13,5                | 13,5           | -                 | 13,72                | 1,25          | 1,65 |    | 1,85 | 2,24 |    | 3,02 |     |     |       |       |  |  |  |  |  |  |  |
| 10       | 3/8           | 17,2                | 17,2           | 14                | 17,14                | 1,24          | 1,65 |    | 1,85 | 2,31 |    | 3,20 |     |     |       |       |  |  |  |  |  |  |  |
| 15       | 1/2           | 21,3                | 21,3           | 20                | 21,34                | 1,65          | 2,11 |    | 2,41 | 2,77 |    | 3,73 |     |     | 4,78  | 7,47  |  |  |  |  |  |  |  |
| 20       | 3/4           | 26,9                | 26,9           | 25                | 26,67                | 1,65          | 2,11 |    | 2,41 | 2,87 |    | 3,91 |     |     | 5,56  | 7,82  |  |  |  |  |  |  |  |
| 25       | 1             | 33,7                | 33,7           | 30                | 33,40                | 1,65          | 2,77 |    | 2,90 | 3,38 |    | 4,55 |     |     | 6,35  | 9,09  |  |  |  |  |  |  |  |
| 32       | 1 ¼           | 42,4                | 42,4           | 38                | 42,16                | 1,65          | 2,77 |    | 2,97 | 3,56 |    | 4,85 |     |     | 6,35  | 9,70  |  |  |  |  |  |  |  |
| 40       | 1 ½           | 48,3                | 48,3           | 44,5              | 48,26                | 1,65          | 2,77 |    | 3,18 | 3,68 |    | 5,08 |     |     | 7,14  | 10,16 |  |  |  |  |  |  |  |
| 50       | 2             | 60,3                | 60,3           | 57                | 60,33                | 1,65          | 2,77 |    | 3,18 | 3,91 |    | 5,54 |     |     | 8,74  | 11,07 |  |  |  |  |  |  |  |
| 65       | 2 ½           | 76,1                | 76,1           | -                 | 73,02                | 2,11          | 3,05 |    | 4,78 | 5,16 |    | 7,01 |     |     | 9,53  | 14,02 |  |  |  |  |  |  |  |
| 80       | 3             | 88,9                | 88,9           | -                 | 88,90                | 2,11          | 3,05 |    | 4,78 | 5,49 |    | 7,62 |     |     | 11,13 | 15,24 |  |  |  |  |  |  |  |
| 90       | 3 ½           | 101,6               | -              | -                 | 101,60               | 2,11          | 3,05 |    | 4,78 | 5,74 |    | 8,08 |     |     | 13,49 | 16,15 |  |  |  |  |  |  |  |

| DN<br>NW | NPS<br>(inch) | EN /<br>ISO<br>(mm) | DIN<br>Reihe 1 | (mm) *<br>Reihe 2 | ANSI<br>ASME<br>(mm) | Schedule (mm) |     |    |    |     |    |    |     |     |     |     |     |  |
|----------|---------------|---------------------|----------------|-------------------|----------------------|---------------|-----|----|----|-----|----|----|-----|-----|-----|-----|-----|--|
|          |               |                     |                |                   |                      | 5             | 10  | 20 | 30 | 40  | 60 | 80 | 100 | 120 | 140 | 160 | XXS |  |
|          |               |                     |                |                   |                      |               | 10s |    |    | Std |    | XS |     |     |     |     |     |  |

|     |     |       |       |     |        |      |      |      |      |      |       |       |       |       |       |       |       |  |  |
|-----|-----|-------|-------|-----|--------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|--|--|
| 100 | 4   | 114,3 | 114,3 | 108 | 114,30 | 2,11 | 3,05 |      | 4,78 | 6,02 | 7,14  | 8,56  |       | 11,10 |       | 13,49 | 17,12 |  |  |
| 115 | 4 ½ | -     | -     | -   | 127,00 |      |      |      |      | 6,27 |       | 9,02  |       |       |       |       | 18,03 |  |  |
| 125 | 5   | 139,7 | 139,7 | 133 | 141,30 | 2,77 | 3,40 |      |      | 6,55 |       | 9,53  |       | 12,70 |       | 15,88 | 19,05 |  |  |
| 150 | 6   | 168,3 | 168,3 | 159 | 168,28 | 2,77 | 3,40 |      |      | 7,11 |       | 10,97 |       | 14,27 |       | 18,26 | 21,95 |  |  |
| -   | 7   | 193,7 | 193,7 | -   | 193,68 |      |      |      |      | 7,65 |       | 12,70 |       |       |       |       | 22,22 |  |  |
| 200 | 8   | 219,1 | 219,1 | 216 | 219,08 | 2,77 | 3,76 | 6,35 | 7,04 | 8,18 | 10,31 | 12,70 | 15,09 | 18,26 | 20,62 | 23,01 | 22,22 |  |  |
| -   | 9   | 244,5 | -     | -   | 244,48 |      |      |      |      | 8,69 |       | 12,70 |       |       |       |       |       |  |  |

| DN<br>NW | NPS<br>(inch) | EN /<br>ISO<br>(mm) | DIN<br>Reihe 1 | (mm) *<br>Reihe 2 | ANSI<br>ASME<br>(mm) | Schedule (mm) |   |    |    |    |     |    |    |    |    |     |     |     |     |
|----------|---------------|---------------------|----------------|-------------------|----------------------|---------------|---|----|----|----|-----|----|----|----|----|-----|-----|-----|-----|
|          |               |                     |                |                   |                      | 5s            | 5 | 10 | 20 | 30 | Std | 40 | 60 | XS | 80 | 100 | 120 | 140 | 160 |
|          |               |                     |                |                   |                      |               |   |    |    |    |     |    |    |    |    |     |     |     |     |

|     |    |       |       |     |        |      |      |      |      |       |      |       |       |       |       |       |       |       |       |
|-----|----|-------|-------|-----|--------|------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 250 | 10 | 273   | 273   | 267 | 273,05 | 3,40 | 3,40 | 4,19 | 6,35 | 7,80  | 9,27 | 9,27  | 12,70 | 12,70 | 15,09 | 18,26 | 21,44 | 25,40 | 28,60 |
| 300 | 12 | 323,9 | 323,9 | 318 | 323,85 | 3,96 | 4,19 | 4,57 | 6,35 | 8,38  | 9,53 | 10,31 | 14,27 | 12,70 | 17,47 | 21,44 | 25,40 | 28,60 | 33,33 |
| 350 | 14 | 355,6 | 355,5 | 368 | 355,60 | 3,96 | 3,96 | 6,35 | 7,93 | 9,53  | 9,53 | 11,10 | 15,09 | 12,70 | 19,05 | 23,82 | 27,76 | 31,75 | 35,71 |
| 400 | 16 | 406,4 | 406,4 | 419 | 406,40 | 4,19 | 4,19 | 6,35 | 7,93 | 9,53  | 9,53 | 12,70 | 16,64 | 12,70 | 21,44 | 26,19 | 30,96 | 36,50 | 40,46 |
| 450 | 18 | 457,2 | 457,2 | 470 | 457,20 | 4,19 | 4,19 | 6,35 | 7,93 | 11,10 | 9,53 | 14,27 | 19,05 | 12,70 | 23,82 | 29,36 | 34,93 | 39,68 | 45,24 |
| 500 | 20 | 508   | 508   | 521 | 508,00 | 4,78 | 6,35 | 6,35 | 9,53 | 12,70 | 9,53 | 15,09 | 20,62 | 12,70 | 26,19 | 32,51 | 38,10 | 44,45 | 49,99 |
| 550 | 22 | 559   | -     | -   | 558,80 | 4,78 | 6,35 | 6,35 | 9,53 | 12,70 | 9,53 | 15,90 | 22,22 | 12,70 | 28,60 | 34,93 | 41,28 | 47,63 | 53,98 |
| 600 | 24 | 610   | 610   | 622 | 609,60 | 5.54 | 5,54 | 6,35 | 9,53 | 14,27 | 9,53 | 17,47 | 24,61 | 12,70 | 30,96 | 38,89 | 46,03 | 52,38 | 59,51 |

| DN<br>NW | NPS<br>(inch) | EN /<br>ISO<br>(mm) | DIN (mm) * |         | ANSI<br>ASME<br>(mm) | Schedule (mm) |      |    |      |       |       |      |       |       |  |  |  |
|----------|---------------|---------------------|------------|---------|----------------------|---------------|------|----|------|-------|-------|------|-------|-------|--|--|--|
|          |               |                     | Reihe 1    | Reihe 2 |                      | 5s            | 10s  | 10 | 20   | 30    | Std   | 40   | XS    |       |  |  |  |
| 650      | 26            | 660                 | -          | -       | 660,40               |               |      |    | 7,93 | 12,70 |       | 9,53 |       | 12,70 |  |  |  |
| 700      | 28            | 711                 | 711        | 720     | 711,20               |               |      |    | 7,93 | 12,70 | 15,88 | 9,53 |       | 12,70 |  |  |  |
| 750      | 30            | 762                 | -          | -       | 762,00               | 6,35          | 7,93 |    | 7,93 | 12,70 | 15,88 | 9,53 |       | 12,70 |  |  |  |
| 800      | 32            | 813                 | 813        | 820     | 812,80               |               |      |    | 7,93 | 12,70 | 15,88 | 9,53 | 17,48 | 12,70 |  |  |  |
| 850      | 34            | 864                 | -          | -       | 863,60               |               |      |    | 7,93 | 12,70 | 15,88 | 9,53 | 17,48 | 12,70 |  |  |  |
| 900      | 36            | 914                 | 914        | 920     | 914,40               |               |      |    | 7,93 |       | 15,88 | 9,53 | 19,05 | 12,70 |  |  |  |

- \*  Vermelde aansluitmaten volgens *Reihe 1* zijn gelijk aan EN / ISO. Vermelde aansluitmaten volgens *Reihe 2* zijn afwijkend van EN / ISO.
- \*  Angegebene anschlussmaße nach Reihe 1 sind ähnlich EN / ISO. Angegebene anschlussmaße nach Reihe 2 sind abweichend von EN / ISO.
- \*  Listed connection dimensions acc. *Reihe 1* are similar to EN / ISO. Listed connection dimensions acc. *Reihe 2* are different from EN / ISO.



## 2.1 Aluminium DIN / EN Flenzen | DIN / EN Flanschen | DIN / EN Flanges EN AW 1050/5754

| 2.1.1                                                            | 2.1.2                                                       | 2.1.3                                                      | 2.1.4                                             | 2.1.5                                                   |
|------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|
|                                                                  |                                                             |                                                            |                                                   |                                                         |
| <br><br>                                                         |                                                             |                                                            |                                                   |                                                         |
| <b>Voorlasflens</b><br>Vorschweißflansche<br>Welding neck flange | <b>Vlakke lasflens</b><br>Glatte Flansche<br>Slip-On flange | <b>Overschuifflens</b><br>Lose Flanche<br>Lap-Joint flange | <b>Blindflens</b><br>Blindflansche<br>Blindflange | <b>Draadflens</b><br>Gewindeflansche<br>Threaded flange |
| Typen/Typen/Types                                                | Typen/Typen/Types                                           | Typen/Typen/Types                                          | Typen/Typen/Types                                 | Typen/Typen/Types                                       |
| DIN 2631 PN6 *<br>(EN 1092-1) t11                                | DIN 2573 PN6 *<br>(EN 1092-1) t1                            | DIN 2641 PN6 *<br>(EN 1092-1) t2                           | DIN 2527 PN6 *<br>(EN 1092-1) t5                  | DIN 2565 PN6 *<br>(EN 1092-1) t13                       |
| DIN 2632 PN10 *<br>(EN 1092-1) t11                               | DIN 2576 PN10 *<br>(EN 1092-1) t1                           | DIN 2642 PN10 *<br>(EN 1092-1) t2                          | DIN 2527 PN10 *<br>(EN 1092-1) t5                 | DIN 2566 PN10 *<br>(EN 1092-1) t13                      |
| DIN 2633 PN16 *<br>(EN 1092-1) t11                               | EN 1092-1 t1 PN16 *                                         | ≡ DIN 2642 PN16 *<br>(EN 1092-1) t2                        | DIN 2527 PN16 *<br>(EN 1092-1) t5                 | DIN 2566 PN16 *<br>(EN 1092-1) t13                      |
| DIN 2634 PN25 *<br>(EN 1092-1) t11                               | EN 1092-1 t1 PN25 *                                         | DIN 2655 PN25 *<br>(EN 1092-1) t2                          | DIN 2527 PN25 *<br>(EN 1092-1) t5                 | DIN 2567 PN25 *<br>(EN 1092-1) t13                      |
| DIN 2635 PN40 *<br>(EN 1092-1) t11                               | EN 1092-1 t1 PN40 *                                         | DIN 2656 PN40 *<br>(EN 1092-1) t2                          | DIN 2527 PN40 *<br>(EN 1092-1) t5                 | DIN 2567 PN40 *<br>(EN 1092-1) t13                      |
| DIN 2636 PN64 *<br>(EN 1092-1) t11 PN63                          | EN 1092-1 t1 PN63 *                                         |                                                            | DIN 2527 PN64 *<br>(EN 1092-1) t5 PN63            | DIN 2568 PN64 *<br>(EN 1092-1) t13 P63                  |
| DIN 2637 PN100 *<br>(EN 1092-1) t11                              | EN 1092-1 t1 PN100 *                                        |                                                            | DIN 2527 PN100 *<br>(EN 1092-1) t5                | DIN 2569 PN100 *<br>(EN 1092-1) t13                     |
| DIN 2638 PN160 *<br>(EN 1092-1) t11                              |                                                             |                                                            | EN 1092-1 t5 PN160 *                              |                                                         |
| DIN 2628 PN250 *<br>(EN 1092-1) t11                              |                                                             |                                                            | EN 1092-1 t5 PN250 *                              |                                                         |
| DIN 2629 PN320 *<br>(EN 1092-1) t11                              |                                                             |                                                            | EN 1092-1 t5 PN320 *                              |                                                         |
| DIN 2627 PN400 *<br>(EN 1092-1) t11                              |                                                             |                                                            | EN 1092-1 t5 PN400 *                              |                                                         |

\* Afmetingen vlg de vermelde drukgroep, NIET de sterkte! | Dimensions according the specified pressure class, NOT the strength!



## 3.1 Aluminium ASTM / ASME Flenzen | ASTM / ASME Flanschen | ASTM / ASME Flanges



3.1.1



Welding neck flange



3.1.2

Slip-On flange



3.1.3

Lap-Joint flange



3.1.4

Blind flange



3.1.5

Threaded flange

### Typen/Typen/Types

ASTM A105 / A350  
ASME B16.5  
class 150 \*

ASTM A105 / A350  
ASME B16.5  
class 300 \*

ASTM A105 / A350  
ASME B16.5  
class 400 \*

ASTM A105 / A350  
ASME B16.5  
class 600 \*

ASTM A105 / A350  
ASME B16.5  
class 900 \*

ASTM A105 / A350  
ASME B16.5  
class 1500 \*

ASTM A105 / A350  
ASME B16.5  
class 2500 \*

### Typen/Typen/Types

ASTM A105 / A350  
ASME B16.5  
class 150 \*

ASTM A105 / A350  
ASME B16.5  
class 300 \*

ASTM A105 / A350  
ASME B16.5  
class 400 \*

ASTM A105 / A350  
ASME B16.5  
class 600 \*

ASTM A105 / A350  
ASME B16.5  
class 900 \*

ASTM A105 / A350  
ASME B16.5  
class 1500 \*

### Typen/Typen/Types

ASTM A105 / A350  
ASME B16.5  
class 150 \*

ASTM A105 / A350  
ASME B16.5  
class 300 \*

ASTM A105 / A350  
ASME B16.5  
class 400 \*

ASTM A105 / A350  
ASME B16.5  
class 600 \*

ASTM A105 / A350  
ASME B16.5  
class 900 \*

ASTM A105 / A350  
ASME B16.5  
class 1500 \*

ASTM A105 / A350  
ASME B16.5  
class 2500 \*

### Typen/Typen/Types

ASTM A105 / A350  
ASME B16.5  
class 150 \*

ASTM A105 / A350  
ASME B16.5  
class 300 \*

ASTM A105 / A350  
ASME B16.5  
class 400 \*

ASTM A105 / A350  
ASME B16.5  
class 600 \*

ASTM A105 / A350  
ASME B16.5  
class 900 \*

ASTM A105 / A350  
ASME B16.5  
class 1500 \*

ASTM A105 / A350  
ASME B16.5  
class 2500 \*

### Typen/Typen/Types

ASTM A105 / A350  
ASME B16.5  
class 150 \*

ASTM A105 / A350  
ASME B16.5  
class 300 \*

ASTM A105 / A350  
ASME B16.5  
class 400 \*

ASTM A105 / A350  
ASME B16.5  
class 600 \*

ASTM A105 / A350  
ASME B16.5  
class 900 \*

ASTM A105 / A350  
ASME B16.5  
class 1500 \*

ASTM A105 / A350  
ASME B16.5  
class 2500 \*

\* Afmetingen vlg de vermelde drukgroep, NIET de sterkte! | Dimensions according the specified pressure class, NOT the strength!