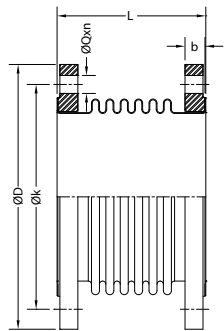


# FLOATING FLANGED

## Expansion Joints



### DESIGN VALUES

|                    |                               |
|--------------------|-------------------------------|
| Bellows Material   | 304, 316, 321                 |
| Flange Material    | Carbon Steel, Stainless Steel |
| Flange Norms       | EN 1092, ANSI B16.5, JIS      |
| Design Pressure    | 2.5 barg                      |
| Design Temperature | 550°C                         |

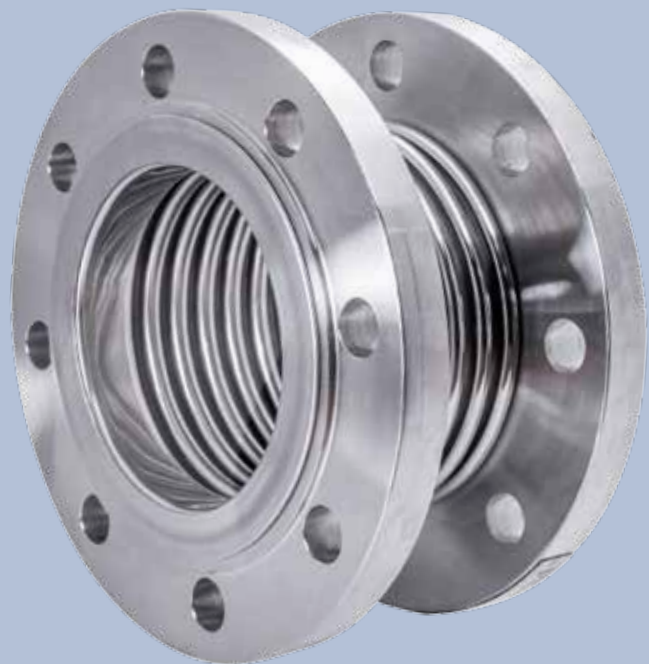


Floating flanged expansion joints are equipped with carbon steel or stainless steel flanges (EN, ASME or as requested). It absorbs mainly axial movements with possibility of some lateral movements.

Even though they can absorb movements in any direction, this type is mainly used for axial movements. If lateral movement is requested, a universal type may be more suitable. These type of expansion joints can be supplied with limit rod, liners, covers, rods, hinges or gimbals.

Available for exhaust gas, liquid medium and steam. Bellows are calculated following latest EJMA standards.

Also, floating flange type expansion joints may have a double bellows which are designed for absorbing the higher lateral movements.



### Advantages

- » Quick connection
- » Easy installation for existing systems
- » Easily replaced
- » Flanges are not in direct contact with media due to bellows
- » Flange misalignment with customer's flange is prevented

### Applications

- » Hot & Cold water pipelines
- » District heating pipelines
- » Steam pipelines
- » Shipbuilding and exhaust systems
- » Geothermal water applications
- » Process based fluids



Subject to technical alterations.  
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GoodEarth Malhar, Kambipura, Kengeri, Bengaluru 560074, Karnataka,  
India. Tel +91 8618523021 / +91 80 2990 9572 / e-mail: info@klinger.in

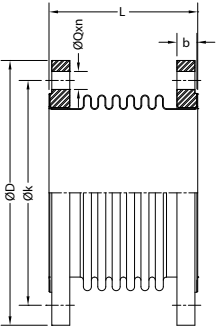
## PN 2,5

| DN  | Type | Length (L)<br>(mm) | Movements           |                       | Spring Rates    |                   | Effective<br>Area (cm²) | PN 2,5     |            |           |    |            |
|-----|------|--------------------|---------------------|-----------------------|-----------------|-------------------|-------------------------|------------|------------|-----------|----|------------|
|     |      |                    | Axial (+/-)<br>(mm) | Lateral (+/-)<br>(mm) | Axial<br>(N/mm) | Lateral<br>(N/mm) |                         | ØD<br>(mm) | Øk<br>(mm) | b<br>(mm) | n  | ØQ<br>(mm) |
| 32  | L    | 210                | 16                  | 17                    | 31              | 4                 | 18                      | 120        | 90         | 14        | 4  | 14         |
|     | S    | 140                | 8                   | 5                     | 57              | 26                |                         |            |            |           |    |            |
| 40  | L    | 210                | 18                  | 17                    | 27              | 5                 | 23                      | 130        | 100        | 14        | 4  | 14         |
|     | S    | 140                | 10                  | 5                     | 50              | 29                |                         |            |            |           |    |            |
| 50  | L    | 210                | 29                  | 22                    | 30              | 9                 | 37                      | 140        | 110        | 14        | 4  | 14         |
|     | S    | 160                | 20                  | 10                    | 44              | 27                |                         |            |            |           |    |            |
| 65  | L    | 215                | 33                  | 21                    | 32              | 13                | 58                      | 160        | 130        | 14        | 4  | 14         |
|     | S    | 160                | 22                  | 9                     | 48              | 45                |                         |            |            |           |    |            |
| 80  | L    | 240                | 40                  | 22                    | 27              | 14                | 79                      | 190        | 150        | 16        | 4  | 18         |
|     | S    | 180                | 24                  | 9                     | 46              | 58                |                         |            |            |           |    |            |
| 100 | L    | 250                | 35                  | 16                    | 60              | 45                | 128                     | 210        | 170        | 16        | 4  | 18         |
|     | S    | 180                | 23                  | 6                     | 82              | 166               |                         |            |            |           |    |            |
| 125 | L    | 265                | 36                  | 15                    | 67              | 66                | 187                     | 240        | 200        | 18        | 8  | 18         |
|     | S    | 195                | 26                  | 7                     | 85              | 202               |                         |            |            |           |    |            |
| 150 | L    | 270                | 50                  | 17                    | 44              | 62                | 271                     | 265        | 225        | 18        | 8  | 18         |
|     | S    | 195                | 30                  | 6                     | 65              | 274               |                         |            |            |           |    |            |
| 200 | L    | 300                | 64                  | 19                    | 41              | 78                | 460                     | 320        | 280        | 20        | 8  | 18         |
|     | S    | 200                | 40                  | 6                     | 58              | 389               |                         |            |            |           |    |            |
| 250 | L    | 305                | 70                  | 16                    | 42              | 42                | 688                     | 375        | 335        | 22        | 12 | 18         |
|     | S    | 205                | 40                  | 5                     | 68              | 683               |                         |            |            |           |    |            |
| 300 | L    | 325                | 70                  | 16                    | 50              | 161               | 945                     | 440        | 395        | 22        | 12 | 22         |
|     | S    | 205                | 40                  | 4                     | 78              | 1.076             |                         |            |            |           |    |            |
| 350 | L    | 330                | 65                  | 16                    | 47              | 181               | 1.127                   | 490        | 445        | 22        | 12 | 22         |
|     | S    | 200                | 35                  | 3                     | 102             | 1.993             |                         |            |            |           |    |            |
| 400 | L    | 330                | 65                  | 14                    | 51              | 255               | 1.478                   | 540        | 495        | 22        | 16 | 22         |
|     | S    | 205                | 30                  | 2                     | 65              | 1.507             |                         |            |            |           |    |            |
| 450 | L    | 330                | 70                  | 13                    | 51              | 329               | 1.839                   | 595        | 550        | 22        | 16 | 22         |
|     | S    | 210                | 35                  | 2                     | 80              | 2.001             |                         |            |            |           |    |            |
| 500 | L    | 330                | 85                  | 13                    | 44              | 354               | 2.263                   | 645        | 600        | 24        | 20 | 22         |
|     | S    | 225                | 40                  | 2                     | 72              | 1931              |                         |            |            |           |    |            |

Please consult with our technical department for different working conditions and design parameters.  
Movements are non-concurrent

DESIGN VALUES

|                    |                               |
|--------------------|-------------------------------|
| Bellows Material   | 304, 316, 321                 |
| Flange Material    | Carbon Steel, Stainless Steel |
| Flange Norms       | EN 1092, ANSI B16.5, JIS      |
| Design Pressure    | 6 barg                        |
| Design Temperature | 400°C                         |



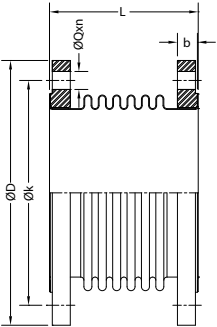
PN 6

| DN  | Type | Length (L)<br>(mm) | Movements           |                       | Spring Rates    |                   | Effective Area (cm²) | PN 6       |            |           |    |            |
|-----|------|--------------------|---------------------|-----------------------|-----------------|-------------------|----------------------|------------|------------|-----------|----|------------|
|     |      |                    | Axial (+/-)<br>(mm) | Lateral (+/-)<br>(mm) | Axial<br>(N/mm) | Lateral<br>(N/mm) |                      | ØD<br>(mm) | Øk<br>(mm) | b<br>(mm) | n  | ØQ<br>(mm) |
| 25  | S    | 115                | 8                   | 4,5                   | 70              | 35                | 19                   | 100        | 75         | 14        | 4  | 11         |
| 32  | S    | 115                | 8                   | 4,5                   | 70              | 35                | 19                   | 120        | 90         | 14        | 4  | 14         |
| 40  | S    | 135                | 11                  | 7                     | 49              | 21                | 26                   | 130        | 100        | 14        | 4  | 14         |
| 50  | L    | 140                | 19                  | 10                    | 49              | 30                | 39                   | 140        | 110        | 14        | 4  | 14         |
|     | S    | 90                 | 10                  | 3                     | 92              | 189               | 39                   | 140        | 110        | 14        | 4  | 14         |
| 65  | L    | 155                | 23                  | 11                    | 49              | 38                | 58                   | 160        | 130        | 14        | 4  | 14         |
|     | S    | 120                | 16                  | 5                     | 71              | 112               | 58                   | 160        | 130        | 14        | 4  | 14         |
| 80  | L    | 155                | 24                  | 9                     | 52              | 60                | 79                   | 190        | 150        | 16        | 4  | 18         |
|     | S    | 120                | 17                  | 4                     | 75              | 181               | 79                   | 190        | 150        | 16        | 4  | 18         |
| 100 | L    | 225                | 32                  | 12                    | 67              | 74                | 130                  | 210        | 170        | 16        | 4  | 18         |
|     | S    | 170                | 25                  | 6                     | 49              | 132               | 129                  | 210        | 170        | 16        | 4  | 18         |
| 125 | L    | 230                | 32                  | 10                    | 78              | 121               | 188                  | 240        | 200        | 18        | 8  | 18         |
|     | S    | 160                | 20                  | 3,5                   | 73              | 404               | 187                  | 240        | 200        | 18        | 8  | 18         |
| 150 | L    | 230                | 38                  | 10                    | 63              | 143               | 271                  | 265        | 225        | 18        | 8  | 18         |
|     | S    | 160                | 20                  | 3                     | 115             | 879               | 271                  | 265        | 225        | 18        | 8  | 18         |
| 200 | L    | 280                | 45                  | 11,5                  | 93              | 250               | 452                  | 320        | 280        | 20        | 8  | 18         |
|     | S    | 200                | 28                  | 3,5                   | 102             | 895               | 452                  | 320        | 280        | 20        | 8  | 18         |
| 250 | L    | 300                | 48                  | 11                    | 96              | 317               | 684                  | 375        | 335        | 22        | 12 | 18         |
|     | S    | 200                | 30                  | 3                     | 104             | 1.380             | 684                  | 375        | 335        | 22        | 12 | 18         |
| 300 | L    | 325                | 55                  | 11,5                  | 99              | 369               | 951                  | 440        | 395        | 22        | 12 | 22         |
|     | S    | 225                | 32                  | 3,5                   | 159             | 1.984             | 956                  | 440        | 395        | 22        | 12 | 22         |
| 350 | L    | 325                | 58                  | 11                    | 95              | 422               | 1.142                | 490        | 445        | 22        | 12 | 22         |
|     | S    | 225                | 32                  | 3,5                   | 170             | 2.533             | 1.142                | 490        | 445        | 22        | 12 | 22         |
| 400 | L    | 315                | 58                  | 9,5                   | 97              | 604               | 1.472                | 540        | 495        | 22        | 16 | 22         |
|     | S    | 235                | 38                  | 4                     | 139             | 2.257             | 1.479                | 540        | 495        | 22        | 16 | 22         |
| 450 | L    | 335                | 60                  | 10                    | 105             | 681               | 1.832                | 595        | 550        | 22        | 16 | 22         |
|     | S    | 235                | 36                  | 3                     | 170             | 3.419             | 1.840                | 595        | 550        | 22        | 16 | 22         |
| 500 | L    | 340                | 65                  | 10                    | 93              | 743               | 2.258                | 645        | 600        | 24        | 20 | 22         |
|     | S    | 240                | 35                  | 3                     | 167             | 4.132             | 2.258                | 645        | 600        | 24        | 20 | 22         |

Please consult with our technical department for different working conditions and design parameters.  
Movements are non-concurrent

DESIGN VALUES

|                    |                               |
|--------------------|-------------------------------|
| Bellows Material   | 304, 316, 321                 |
| Flange Material    | Carbon Steel, Stainless Steel |
| Flange Norms       | EN 1092, ANSI B16.5, JIS      |
| Design Pressure    | 10 barg                       |
| Design Temperature | 400°C                         |



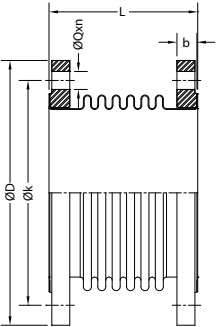
PN 10

| DN  | Type | Length (L)<br>(mm) | Movements           |                       | Spring Rates    |                   | Effective Area (cm²) | PN 10      |            |           |    |            |
|-----|------|--------------------|---------------------|-----------------------|-----------------|-------------------|----------------------|------------|------------|-----------|----|------------|
|     |      |                    | Axial (+/-)<br>(mm) | Lateral (+/-)<br>(mm) | Axial<br>(N/mm) | Lateral<br>(N/mm) |                      | ØD<br>(mm) | Øk<br>(mm) | b<br>(mm) | n  | ØQ<br>(mm) |
| 25  | S    | 125                | 8                   | 4,5                   | 64              | 33                | 19                   | 115        | 85         | 18        | 4  | 14         |
| 32  | S    | 125                | 8                   | 4,5                   | 64              | 33                | 19                   | 140        | 100        | 18        | 4  | 18         |
| 40  | S    | 125                | 9                   | 4,5                   | 57              | 37                | 26                   | 150        | 110        | 18        | 4  | 18         |
| 50  | S    | 125                | 15                  | 6                     | 61              | 64                | 39                   | 165        | 125        | 18        | 4  | 18         |
| 65  | S    | 140                | 17                  | 6                     | 64              | 81                | 58                   | 185        | 145        | 18        | 8  | 18         |
| 80  | L    | 190                | 22                  | 10                    | 94              | 74                | 80                   | 200        | 160        | 20        | 8  | 18         |
|     | S    | 140                | 18                  | 5,5                   | 65              | 125               | 79                   | 200        | 160        | 20        | 8  | 18         |
| 100 | L    | 180                | 24                  | 7,5                   | 89              | 139               | 130                  | 220        | 180        | 20        | 8  | 18         |
|     | S    | 125                | 18                  | 3,5                   | 71              | 300               | 129                  | 220        | 180        | 20        | 8  | 18         |
| 125 | L    | 190                | 26                  | 7,5                   | 99              | 190               | 187                  | 250        | 210        | 22        | 8  | 18         |
|     | S    | 130                | 18                  | 3                     | 81              | 495               | 187                  | 250        | 210        | 22        | 8  | 18         |
| 150 | L    | 190                | 27                  | 6,5                   | 100             | 271               | 264                  | 285        | 240        | 22        | 8  | 22         |
|     | S    | 150                | 22                  | 3,5                   | 79              | 423               | 259                  | 285        | 240        | 22        | 8  | 22         |
| 200 | L    | 255                | 35                  | 8                     | 116             | 396               | 452                  | 340        | 295        | 24        | 8  | 22         |
|     | S    | 195                | 23                  | 3                     | 131             | 1.133             | 445                  | 340        | 295        | 24        | 8  | 22         |
| 250 | L    | 285                | 40                  | 8                     | 122             | 494               | 679                  | 395        | 350        | 26        | 12 | 22         |
|     | S    | 205                | 23                  | 2,5                   | 192             | 2.562             | 684                  | 395        | 350        | 26        | 12 | 22         |
| 300 | L    | 300                | 44                  | 8                     | 126             | 624               | 948                  | 445        | 400        | 26        | 12 | 22         |
|     | S    | 230                | 27                  | 3                     | 202             | 2.489             | 948                  | 445        | 400        | 26        | 12 | 22         |
| 350 | L    | 270                | 45                  | 7,5                   | 158             | 859               | 1.148                | 505        | 460        | 26        | 16 | 22         |
|     | S    | 190                | 28                  | 2,5                   | 253             | 3.793             | 1.148                | 505        | 460        | 26        | 16 | 22         |
| 400 | L    | 280                | 50                  | 8                     | 152             | 954               | 1.477                | 565        | 515        | 26        | 16 | 26         |
|     | S    | 200                | 30                  | 3                     | 256             | 4.136             | 1.477                | 565        | 515        | 26        | 16 | 26         |
| 450 | L    | 310                | 50                  | 8,5                   | 165             | 991               | 1.838                | 615        | 565        | 28        | 20 | 26         |
|     | S    | 200                | 30                  | 2,5                   | 283             | 5.703             | 1.845                | 615        | 565        | 28        | 20 | 26         |
| 500 | L    | 310                | 50                  | 7,5                   | 191             | 1.393             | 2.245                | 670        | 620        | 28        | 20 | 26         |
|     | S    | 200                | 27                  | 2                     | 343             | 8.426             | 2.245                | 670        | 620        | 28        | 20 | 26         |
| 450 | L    | 335                | 60                  | 10                    | 105             | 681               | 1.832                | 595        | 550        | 22        | 16 | 22         |
|     | S    | 235                | 36                  | 3                     | 170             | 3.419             | 1.840                | 595        | 550        | 22        | 16 | 22         |
| 500 | L    | 340                | 65                  | 10                    | 93              | 743               | 2.258                | 645        | 600        | 24        | 20 | 22         |
|     | S    | 240                | 35                  | 3                     | 167             | 4.132             | 2.258                | 645        | 600        | 24        | 20 | 22         |

Please consult with our technical department for different working conditions and design parameters.  
Movements are non-concurrent

DESIGN VALUES

|                    |                               |
|--------------------|-------------------------------|
| Bellows Material   | 304, 316, 321                 |
| Flange Material    | Carbon Steel, Stainless Steel |
| Flange Norms       | EN 1092, ANSI B16.5, JIS      |
| Design Pressure    | 16 barg                       |
| Design Temperature | 400°C                         |



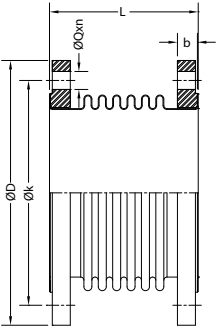
PN 16

| DN  | Type | Length (L)<br>(mm) | Movements           |                       | Spring Rates    |                   | Effective Area (cm²) | PN 16      |            |           |    |            |
|-----|------|--------------------|---------------------|-----------------------|-----------------|-------------------|----------------------|------------|------------|-----------|----|------------|
|     |      |                    | Axial (+/-)<br>(mm) | Lateral (+/-)<br>(mm) | Axial<br>(N/mm) | Lateral<br>(N/mm) |                      | ØD<br>(mm) | Øk<br>(mm) | b<br>(mm) | n  | ØQ<br>(mm) |
| 25  | S    | 115                | 7                   | 3,5                   | 76              | 50                | 19                   | 115        | 85         | 18        | 4  | 14         |
| 32  | S    | 115                | 7                   | 3,5                   | 76              | 50                | 18                   | 140        | 100        | 18        | 4  | 18         |
| 40  | S    | 115                | 7                   | 2,5                   | 74              | 73                | 26                   | 150        | 110        | 18        | 4  | 18         |
| 50  | S    | 115                | 12                  | 4                     | 79              | 105               | 39                   | 165        | 125        | 18        | 4  | 18         |
| 65  | S    | 120                | 13                  | 3,5                   | 80              | 163               | 58                   | 185        | 145        | 18        | 4  | 18         |
| 80  | L    | 165                | 17                  | 6,5                   | 125             | 143               | 79                   | 200        | 160        | 20        | 8  | 18         |
|     | S    | 120                | 12                  | 2,5                   | 99              | 353               | 79                   | 200        | 160        | 20        | 8  | 18         |
| 100 | L    | 190                | 22                  | 7,5                   | 146             | 186               | 130                  | 220        | 180        | 20        | 8  | 18         |
|     | S    | 160                | 19                  | 5                     | 113             | 249               | 129                  | 220        | 180        | 20        | 8  | 18         |
| 125 | L    | 210                | 23                  | 7,5                   | 164             | 241               | 187                  | 250        | 210        | 22        | 8  | 18         |
|     | S    | 160                | 21                  | 4,5                   | 114             | 363               | 188                  | 250        | 210        | 22        | 8  | 18         |
| 150 | L    | 210                | 23                  | 6,5                   | 170             | 352               | 263                  | 285        | 240        | 22        | 8  | 22         |
|     | S    | 140                | 15                  | 2                     | 180             | 1.217             | 264                  | 285        | 240        | 22        | 8  | 22         |
| 200 | L    | 280                | 31                  | 8                     | 195             | 499               | 452                  | 340        | 295        | 24        | 12 | 22         |
|     | S    | 200                | 18                  | 2,5                   | 255             | 2.208             | 445                  | 340        | 295        | 24        | 12 | 22         |
| 250 | L    | 310                | 32                  | 6,5                   | 201             | 731               | 680                  | 405        | 355        | 26        | 12 | 26         |
|     | S    | 220                | 18                  | 2                     | 343             | 4.557             | 684                  | 405        | 355        | 26        | 12 | 26         |
| 300 | L    | 370                | 40                  | 8,5                   | 262             | 912               | 974                  | 460        | 410        | 28        | 12 | 26         |
|     | S    | 270                | 22                  | 2,5                   | 472             | 5.103             | 972                  | 460        | 410        | 28        | 12 | 26         |
| 350 | L    | 330                | 43                  | 9                     | 264             | 925               | 1.155                | 520        | 470        | 30        | 16 | 26         |
|     | S    | 210                | 22                  | 2,5                   | 513             | 6.592             | 1.156                | 520        | 470        | 30        | 16 | 26         |
| 400 | L    | 330                | 43                  | 8                     | 288             | 1.395             | 1.484                | 580        | 525        | 32        | 16 | 30         |
|     | S    | 220                | 24                  | 2,5                   | 519             | 7.948             | 1.484                | 580        | 525        | 32        | 16 | 30         |
| 450 | L    | 360                | 45                  | 8,5                   | 302             | 1.441             | 1.849                | 640        | 585        | 34        | 20 | 30         |
|     | S    | 220                | 22                  | 2                     | 604             | 11.529            | 1.851                | 640        | 585        | 34        | 20 | 30         |
| 500 | L    | 480                | 52                  | 13                    | 429             | 1.208             | 2.265                | 715        | 650        | 36        | 20 | 33         |
|     | S    | 260                | 23                  | 2                     | 1001            | 14.638            | 2.265                | 715        | 650        | 36        | 20 | 33         |

Please consult with our technical department for different working conditions and design parameters.  
Movements are non-concurrent

DESIGN VALUES

|                    |                               |
|--------------------|-------------------------------|
| Bellows Material   | 304, 316, 321                 |
| Flange Material    | Carbon Steel, Stainless Steel |
| Flange Norms       | EN 1092, ANSI B16.5, JIS      |
| Design Pressure    | 25 barg                       |
| Design Temperature | 400°C                         |



PN 25

| DN  | Type | Length (L)<br>(mm) | Movements           |                       | Spring Rates    |                   | Effective Area (cm²) | PN 25      |            |           |    |            |
|-----|------|--------------------|---------------------|-----------------------|-----------------|-------------------|----------------------|------------|------------|-----------|----|------------|
|     |      |                    | Axial (+/-)<br>(mm) | Lateral (+/-)<br>(mm) | Axial<br>(N/mm) | Lateral<br>(N/mm) |                      | ØD<br>(mm) | Øk<br>(mm) | b<br>(mm) | n  | ØQ<br>(mm) |
| 50  | S    | 105                | 9                   | 2,5                   | 102             | 215               | 38                   | 165        | 125        | 20        | 4  | 18         |
| 65  | S    | 105                | 9                   | 2                     | 129             | 402               | 57                   | 185        | 145        | 22        | 8  | 18         |
| 80  | L    | 135                | 12                  | 3                     | 161             | 340               | 90                   | 200        | 160        | 24        | 8  | 18         |
|     | S    | 110                | 8                   | 1,5                   | 226             | 955               | 77                   | 200        | 160        | 24        | 8  | 18         |
| 100 | L    | 185                | 16                  | 6                     | 221             | 289               | 129                  | 235        | 190        | 24        | 8  | 22         |
|     | S    | 135                | 11                  | 2,5                   | 276             | 923               | 129                  | 235        | 190        | 24        | 8  | 22         |
| 125 | L    | 190                | 16                  | 5                     | 243             | 460               | 187                  | 270        | 220        | 26        | 8  | 26         |
|     | S    | 140                | 11                  | 2                     | 326             | 1.569             | 187                  | 270        | 220        | 26        | 8  | 26         |
| 150 | L    | 195                | 20                  | 5                     | 227             | 608               | 258                  | 300        | 250        | 28        | 8  | 26         |
|     | S    | 160                | 15                  | 3                     | 263             | 1.284             | 258                  | 300        | 250        | 28        | 8  | 26         |
| 200 | L    | 200                | 23                  | 4,5                   | 290             | 1.290             | 444                  | 360        | 310        | 30        | 12 | 26         |
|     | S    | 175                | 19                  | 3                     | 354             | 2.348             | 444                  | 360        | 310        | 30        | 12 | 26         |
| 250 | L    | 235                | 29                  | 5,5                   | 344             | 1.572             | 682                  | 425        | 370        | 32        | 12 | 30         |
|     | S    | 185                | 20                  | 2,5                   | 6204            | 4.279             | 682                  | 425        | 370        | 32        | 12 | 30         |
| 300 | L    | 260                | 32                  | 5,5                   | 507             | 2.588             | 975                  | 485        | 430        | 34        | 16 | 30         |
|     | S    | 200                | 21                  | 2,5                   | 530             | 5.711             | 975                  | 485        | 430        | 34        | 16 | 30         |
| 350 | L    | 290                | 36                  | 6,5                   | 480             | 1.391             | 1.161                | 555        | 490        | 38        | 16 | 33         |
|     | S    | 215                | 17                  | 2                     | 1199            | 14.065            | 1.161                | 555        | 490        | 38        | 16 | 33         |
| 400 | L    | 285                | 34                  | 5                     | 556             | 3.874             | 1.489                | 620        | 550        | 40        | 16 | 36         |
|     | S    | 225                | 24                  | 2,5                   | 778             | 10.975            | 1.489                | 620        | 550        | 40        | 16 | 36         |
| 450 | L    | 305                | 35                  | 5                     | 819             | 6.488             | 1.865                | 670        | 600        | 46        | 20 | 36         |
|     | S    | 245                | 22                  | 2                     | 992             | 15.450            | 1.865                | 670        | 600        | 46        | 20 | 36         |
| 500 | L    | 310                | 37                  | 5                     | 776             | 7.539             | 2.289                | 730        | 660        | 48        | 20 | 36         |
|     | S    | 250                | 25                  | 2,5                   | 1138            | 21.480            | 2.289                | 730        | 660        | 48        | 20 | 36         |

Please consult with our technical department for different working conditions and design parameters.  
Movements are non-concurrent



Subject to technical alterations.  
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