

# P+S

## ELASTOMERIC SPRINGS CELLULAR AND COMPACT



P+S Polyurethan-Elastomere GmbH & Co. KG  
Kielweg 17 · DE-49356 Diepholz



# P+S POLYURETHAN-ELASTOMERE GMBH & CO. KG

The **dynamic and highly resilient** construction elements made of polyurethane elastomers have been impressing customers from a wide range of industries since 1972.

Both compact and foamed elastomers are characterised by outstanding technical properties. Customers from all over the world rely on the environmentally friendly elastomers from P+S.

Creative solution competence, a **strong knowledge of the industry**, modern polyurethane materials, as well as a **high degree in adherence to**

**lead times and service orientation**, are essential components of our corporate culture.

With the achievement of our **certifications**:

- ISO 9001:2015 (Quality Management)
- ISO 14001:2015 (environmental management)
- ISO 45001:2018 (Occupational Health and Safety)
- ISO 50001:2018 (Energy Management)

we are regularly confirmed that we design our processes to be efficient as well as sustainable and energy-saving.





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# ELASTOMERIC SPRINGS

## Description, instructions for use and available versions

### DESCRIPTION:

P+S elastomeric springs are suitable for a wide range of applications in many different industrial sectors. Our range includes both the cellular elastomeric springs, made of the foamed VULKOCELL® material, and the compact elastomeric springs, made of the casted DIEPOTHAN® material.

The two product ranges differ in appearance, sizes and load capacities.

VULKOCELL® is characterised by its high dynamic load-bearing capacity and impressive volume compressibility under load. DIEPOTHAN®, on the other hand, can handle even higher loads while maintaining similar size and shape to a VULKOCELL® component. A further difference can be found in the deformation under load. While a VULKOCELL® component exhibits

minimal lateral deformation due to its foam structure (up to around 50% load), a DIEPOTHAN® component does show some lateral deformation, which must be taken into account.

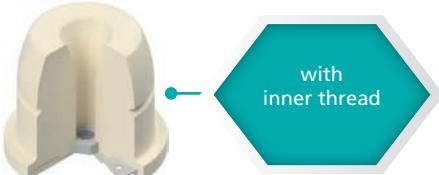
Both materials are characterised by their excellent resistance to mineral oils and greases and can be used continuously in the temperature range from -30 to +80°C. Bear in mind, however, that use in the temperature range below 0°C can lead to hardening of the material, which pushes the load limits accordingly.

Place your trust in our high-quality elastomeric springs, which can be used in a wide range of applications. Contact us today to find out more about our products and their areas of application. We look forward to hearing from you!

### NOTES ON THE USE OF P+S ELASTOMERIC SPRINGS CELLULAR:

- we recommend designing the spring elements to operate within a compression range of 35-70%.
- a load up to 85 % is possible, however, this would increase the final forces exponentially.
- a lateral expansion of the spring elements of up to 50 % must be taken into account in the design.

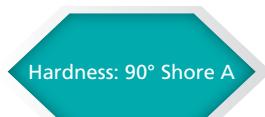
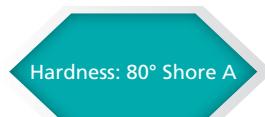
- a full-surface contact area and counter-pressure area must be guaranteed when using a **P+S spring element** in order to achieve the technical load values specified later.
- technical load curves and recommended load ranges can be found starting on page 5.



### NOTES ON THE USE OF P+S ELASTOMERIC SPRINGS COMPACT:

- we recommend loading the spring elements in the range from 0 to a maximum of 25 or 35 % dynamic load. A load on the spring beyond this range is only permitted for a short time.
- a lateral expansion of the spring elements of up to 50% must be considered in the design.

- a full-surface contact area and counter-pressure area must be guaranteed when using a **P+S spring element** in order to achieve the technical load values specified later.
- technical load curves and recommended load ranges can be found starting on page 16.



# ELASTOMERIC SPRINGS CELLULAR MADE OF VULKOCELL®



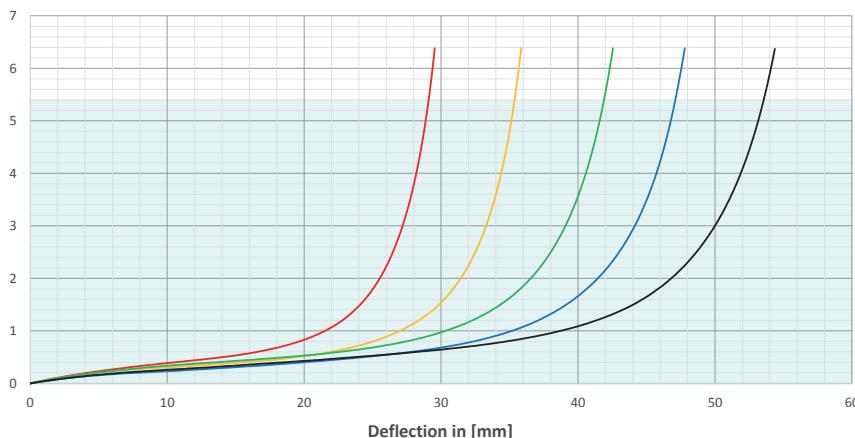
## Overview of the standard program

| NOMINAL SIZE | DIMENSIONS |          |             | VULKOCELL NH 24 - 40       |            | VULKOCELL NH 24 - 50       |            | VULKOCELL NH 24 - 60       |            | LINK TO THE LOAD DIAGRAM |  |
|--------------|------------|----------|-------------|----------------------------|------------|----------------------------|------------|----------------------------|------------|--------------------------|--|
|              |            |          |             | Max. dynamic load capacity |            | Max. dynamic load capacity |            | Max. dynamic load capacity |            |                          |  |
|              | ØD1 [mm]   | ØD2 [mm] | Height [mm] | Deflection [mm]            | Force [kN] | Deflection [mm]            | Force [kN] | Deflection [mm]            | Force [kN] |                          |  |
| 50 (60)      | 50         | 60       | 41          | 28.7                       | 5.4        | 28.7                       | 8.7        | 28.7                       | 12.8       | Page 6                   |  |
|              | 50         | 60       | 51          | 35.7                       | 5.4        | 35.7                       | 8.7        | 35.7                       | 12.8       |                          |  |
|              | 50         | 60       | 61          | 42.7                       | 5.4        | 42.7                       | 8.7        | 42.7                       | 12.8       |                          |  |
|              | 50         | 60       | 66          | 46.2                       | 5.4        | 46.2                       | 8.7        | 46.2                       | 12.8       |                          |  |
|              | 50         | 60       | 76          | 53.2                       | 5.4        | 53.2                       | 8.7        | 53.2                       | 12.8       |                          |  |
| 63 (80)      | 63         | 80       | 51          | 35.7                       | 8.0        | 35.7                       | 13.0       | 35.7                       | 19.0       | Page 7                   |  |
|              | 63         | 80       | 64          | 44.8                       | 8.0        | 44.8                       | 13.0       | 44.8                       | 19.0       |                          |  |
|              | 63         | 80       | 76          | 53.2                       | 8.0        | 53.2                       | 13.0       | 53.2                       | 19.0       |                          |  |
|              | 63         | 80       | 84          | 58.8                       | 8.0        | 58.8                       | 13.0       | 58.8                       | 19.0       |                          |  |
|              | 63         | 80       | 96          | 67.2                       | 8.0        | 67.2                       | 13.0       | 67.2                       | 19.0       |                          |  |
| 80 (95)      | 80         | 95       | 66          | 46.2                       | 12.0       | 46.2                       | 19.6       | 46.2                       | 28.7       | Page 8                   |  |
|              | 80         | 95       | 81          | 56.7                       | 12.0       | 56.7                       | 19.6       | 56.7                       | 28.7       |                          |  |
|              | 80         | 95       | 96          | 67.2                       | 12.0       | 67.2                       | 19.6       | 67.2                       | 28.7       |                          |  |
|              | 80         | 95       | 106         | 74.2                       | 12.0       | 74.2                       | 19.6       | 74.2                       | 28.7       |                          |  |
|              | 80         | 95       | 126         | 88.2                       | 12.0       | 88.2                       | 19.6       | 88.2                       | 28.7       |                          |  |
| 100 (120)    | 100        | 120      | 81          | 56.7                       | 19.6       | 56.7                       | 32.0       | 56.7                       | 46.8       | Page 9                   |  |
|              | 100        | 120      | 101         | 70.7                       | 19.6       | 70.7                       | 32.0       | 70.7                       | 46.8       |                          |  |
|              | 100        | 120      | 121         | 84.7                       | 19.6       | 84.7                       | 32.0       | 84.7                       | 46.8       |                          |  |
|              | 100        | 120      | 133         | 93.1                       | 19.6       | 93.1                       | 32.0       | 93.1                       | 46.8       |                          |  |
|              | 100        | 120      | 151         | 105.7                      | 19.6       | 105.7                      | 32.0       | 105.7                      | 46.8       |                          |  |
| 112 (135)    | 112        | 135      | 91          | 63.7                       | 25.8       | 63.7                       | 42.0       | 63.7                       | 61.5       | Page 10                  |  |
|              | 112        | 135      | 111         | 77.7                       | 25.8       | 77.7                       | 42.0       | 77.7                       | 61.5       |                          |  |
|              | 112        | 135      | 131         | 91.7                       | 25.8       | 91.7                       | 42.0       | 91.7                       | 61.5       |                          |  |
|              | 112        | 135      | 151         | 105.7                      | 25.8       | 105.7                      | 42.0       | 105.7                      | 61.5       |                          |  |
|              | 112        | 135      | 171         | 119.7                      | 25.8       | 119.7                      | 42.0       | 119.7                      | 61.5       |                          |  |
| 125 (145)    | 125        | 145      | 101         | 70.7                       | 32.7       | 70.7                       | 53.2       | 70.7                       | 77.9       | Page 11                  |  |
|              | 125        | 145      | 125         | 87.5                       | 32.7       | 87.5                       | 53.2       | 87.5                       | 77.9       |                          |  |
|              | 125        | 145      | 151         | 105.7                      | 32.7       | 105.7                      | 53.2       | 105.7                      | 77.9       |                          |  |
|              | 125        | 145      | 166         | 116.2                      | 32.7       | 116.2                      | 53.2       | 116.2                      | 77.9       |                          |  |
|              | 125        | 145      | 191         | 133.7                      | 32.7       | 133.7                      | 53.2       | 133.7                      | 77.9       |                          |  |
| 140 (165)    | 140        | 165      | 111         | 77.7                       | 38.3       | 77.7                       | 62.3       | 77.7                       | 91.2       | Page 12                  |  |
|              | 140        | 165      | 141         | 98.7                       | 38.3       | 98.7                       | 62.3       | 98.7                       | 91.2       |                          |  |
|              | 140        | 165      | 166         | 116.2                      | 38.3       | 116.2                      | 62.3       | 116.2                      | 91.2       |                          |  |
|              | 140        | 165      | 186         | 130.2                      | 38.3       | 130.2                      | 62.3       | 130.2                      | 91.2       |                          |  |
|              | 140        | 165      | 210         | 147.0                      | 38.3       | 147.0                      | 62.3       | 147.0                      | 91.2       |                          |  |
| 160 (185)    | 160        | 185      | 131         | 91.7                       | 52.2       | 91.7                       | 84.9       | 91.7                       | 124.3      | Page 13                  |  |
|              | 160        | 185      | 161         | 112.7                      | 52.2       | 112.7                      | 84.9       | 112.7                      | 124.3      |                          |  |
|              | 160        | 185      | 185         | 129.5                      | 52.2       | 129.5                      | 84.9       | 129.5                      | 124.3      |                          |  |
|              | 160        | 185      | 211         | 147.7                      | 52.2       | 147.7                      | 84.9       | 147.7                      | 124.3      |                          |  |
|              | 160        | 185      | 241         | 168.7                      | 52.2       | 168.7                      | 84.9       | 168.7                      | 124.3      |                          |  |
| 180 (210)    | 180        | 210      | 161         | 112.7                      | 64.5       | 112.7                      | 105.0      | 112.7                      | 153.6      | Page 14                  |  |
|              | 180        | 210      | 185         | 129.5                      | 64.5       | 129.5                      | 105.0      | 129.5                      | 153.6      |                          |  |
|              | 180        | 210      | 211         | 147.7                      | 64.5       | 147.7                      | 105.0      | 147.7                      | 153.6      |                          |  |
|              | 180        | 210      | 236         | 165.2                      | 64.5       | 165.2                      | 105.0      | 165.2                      | 153.6      |                          |  |
|              | 180        | 210      | 266         | 186.2                      | 64.5       | 186.2                      | 105.0      | 186.2                      | 153.6      |                          |  |
| 200 (230)    | 200        | 230      | 161         | 112.7                      | 81.5       | 112.7                      | 132.7      | 112.7                      | 194.2      | Page 15                  |  |
|              | 200        | 230      | 201         | 140.7                      | 81.5       | 140.7                      | 132.7      | 140.7                      | 194.2      |                          |  |
|              | 200        | 230      | 236         | 165.2                      | 81.5       | 165.2                      | 132.7      | 165.2                      | 194.2      |                          |  |
|              | 200        | 230      | 266         | 186.2                      | 81.5       | 186.2                      | 132.7      | 186.2                      | 194.2      |                          |  |
|              | 200        | 230      | 301         | 210.7                      | 81.5       | 210.7                      | 132.7      | 210.7                      | 194.2      |                          |  |

# ELASTOMERIC SPRING CELLULAR STANDARD PROGRAM

Nominal size Ø50 (60) – VULKOCELL®

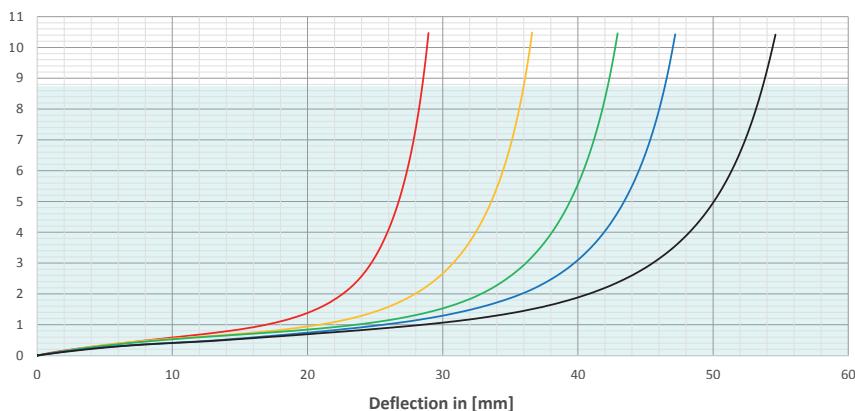
Force in [kN]



DIMENSIONS in [mm]:

Ø50 (60) x height  
VULKOCELL® NH 24 - 40

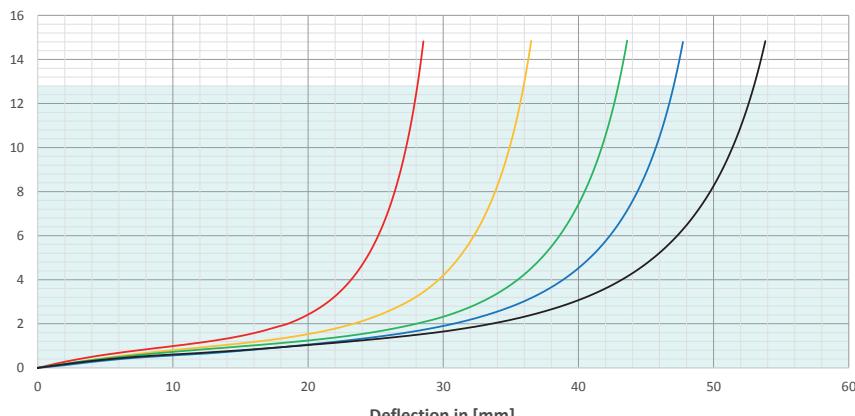
Force in [kN]



DIMENSIONS in [mm]:

Ø50 (60) x height  
VULKOCELL® NH 24 - 50

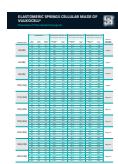
Force in [kN]



DIMENSIONS in [mm]:

Ø50 (60) x height  
VULKOCELL® NH 24 - 60

To the load overview



## DESIGN RECOMMENDATION:

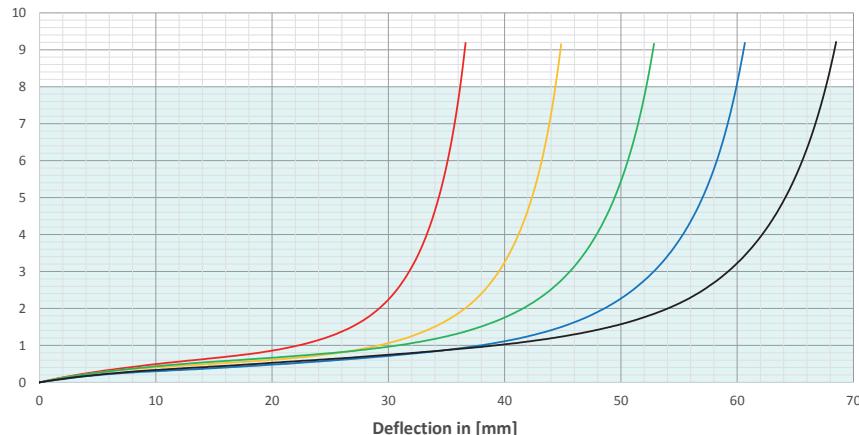
- Static compression up to a maximum of 33% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic compression up to 70% of the respective nominal height. Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING CELLULAR STANDARD PROGRAM

Nominal size Ø63 (80) – VULKOCELL®



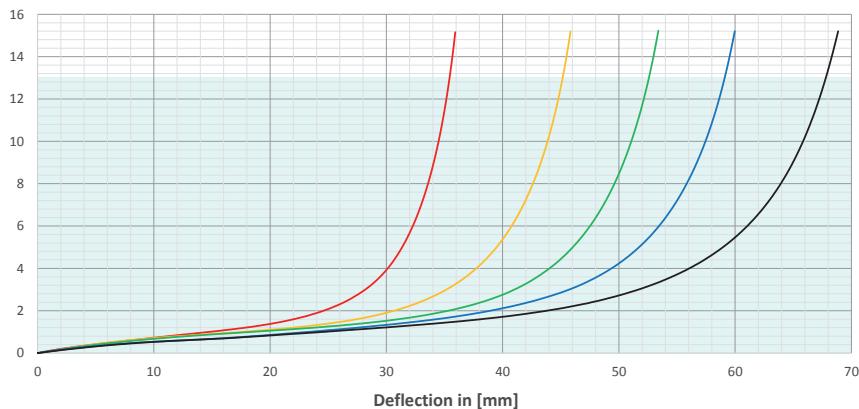
Force in [kN]



DIMENSIONS in [mm]:

Ø63 (80) x height  
VULKOCELL® NH 24 - 40

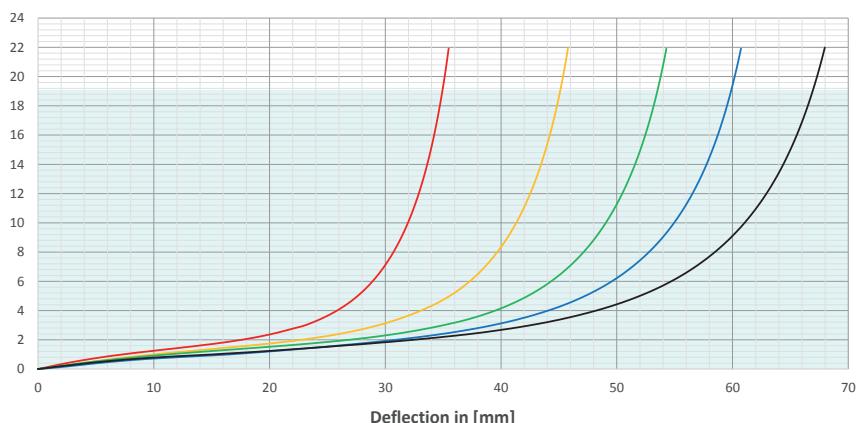
Force in [kN]



DIMENSIONS in [mm]:

Ø63 (80) x height  
VULKOCELL® NH 24 - 50

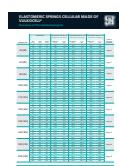
Force in [kN]



DIMENSIONS in [mm]:

Ø63 (80) x height  
VULKOCELL® NH 24 - 60

To the load overview



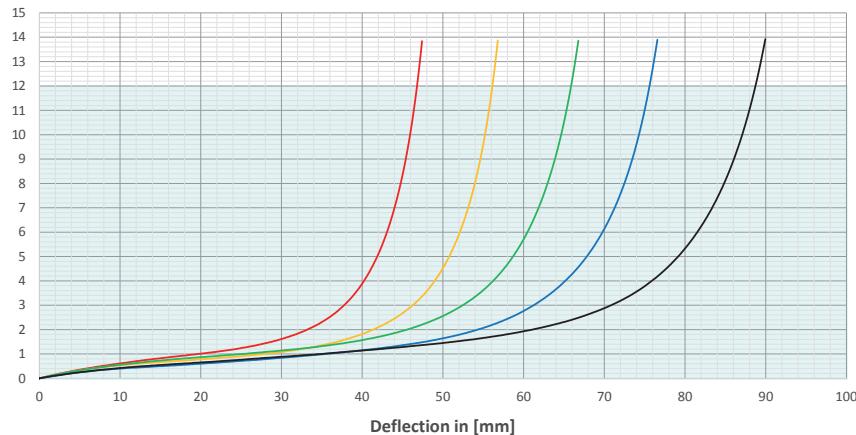
## DESIGN RECOMMENDATION:

- Static compression up to a maximum of 33% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic compression up to 70% of the respective nominal height. Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING CELLULAR STANDARD PROGRAM

Nominal size Ø80 (95) – VULKOCELL®

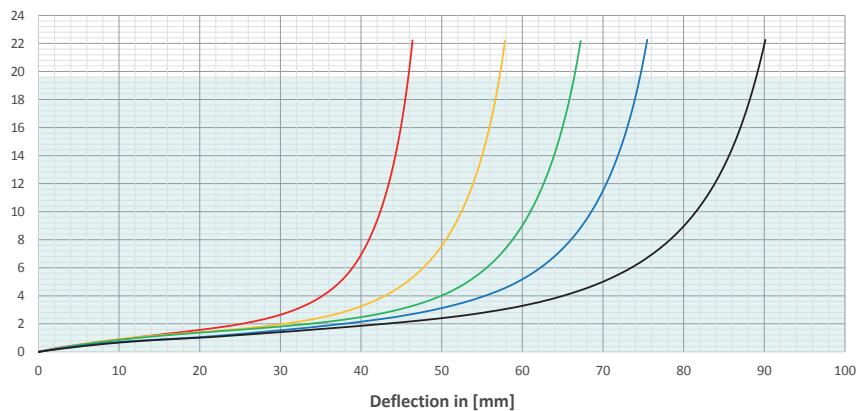
Force in [kN]



DIMENSIONS in [mm]:

Ø80 (95) x height  
VULKOCELL® NH 24 - 40

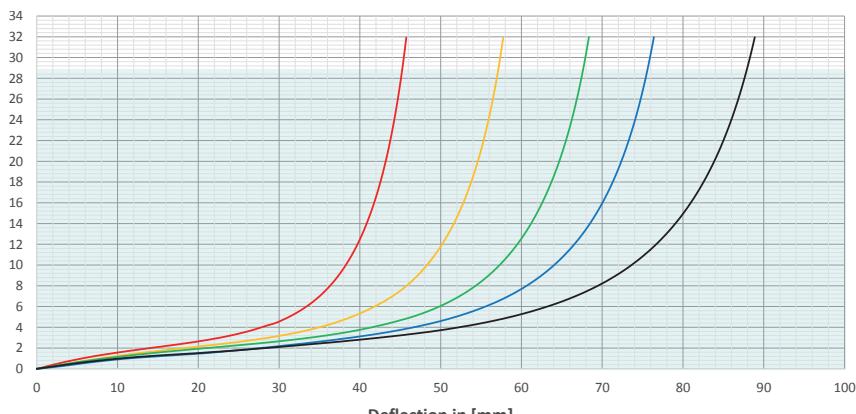
Force in [kN]



DIMENSIONS in [mm]:

Ø80 (95) x height  
VULKOCELL® NH 24 - 50

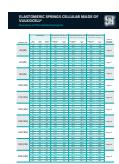
Force in [kN]



DIMENSIONS in [mm]:

Ø80 (95) x height  
VULKOCELL® NH 24 - 60

To the load overview



## DESIGN RECOMMENDATION:

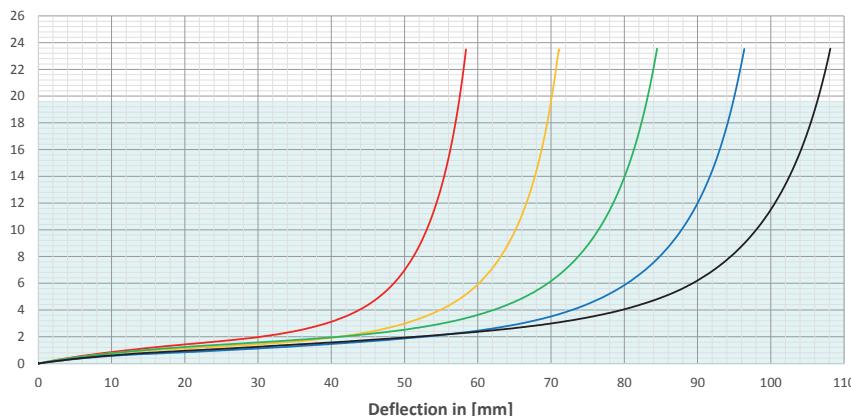
- Static compression up to a maximum of 33% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic compression up to 70% of the respective nominal height. Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING CELLULAR STANDARD PROGRAM

Nominal size Ø100 (120) – VULKOCELL®



Force in [kN]

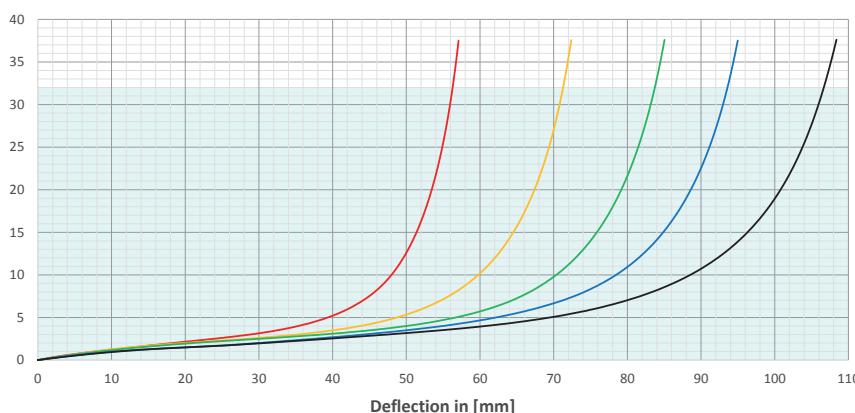


DIMENSIONS in [mm]:

Ø100 (120) x height

VULKOCELL® NH 24 - 40

Force in [kN]

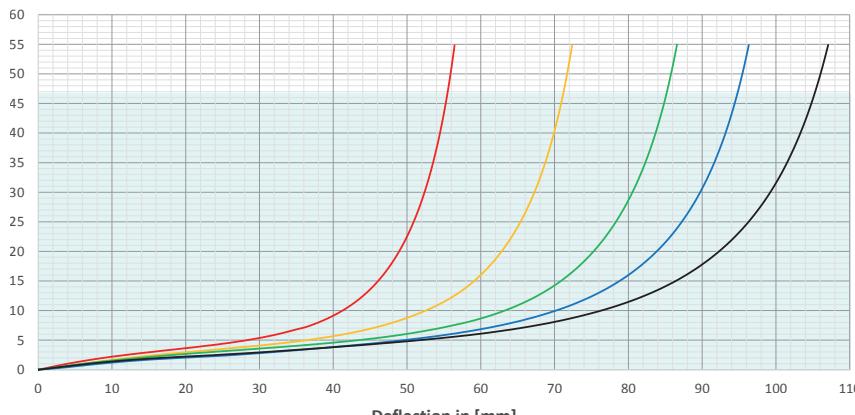


DIMENSIONS in [mm]:

Ø100 (120) x height

VULKOCELL® NH 24 - 50

Force in [kN]

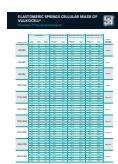


DIMENSIONS in [mm]:

Ø100 (120) x height

VULKOCELL® NH 24 - 60

To the load overview



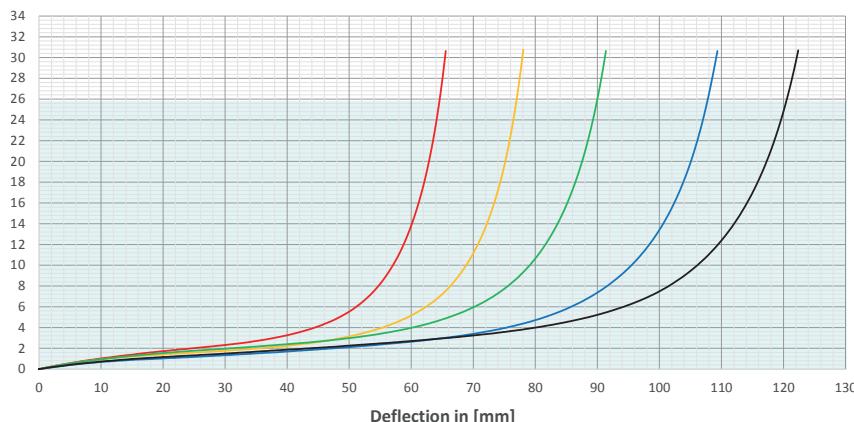
## DESIGN RECOMMENDATION:

- Static compression up to a maximum of 33% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic compression up to 70% of the respective nominal height. Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING CELLULAR STANDARD PROGRAM

Nominal size Ø112 (135) – VULKOCELL®

Force in [kN]

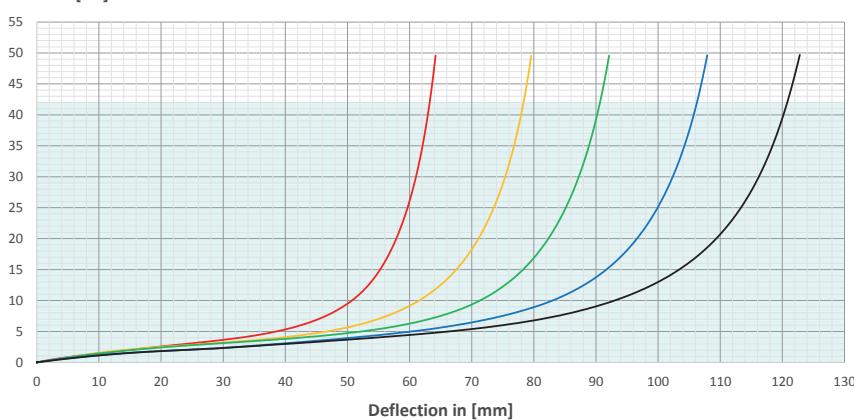


DIMENSIONS in [mm]:

Ø112 (135) x height

VULKOCELL® NH 24 - 40

Force in [kN]

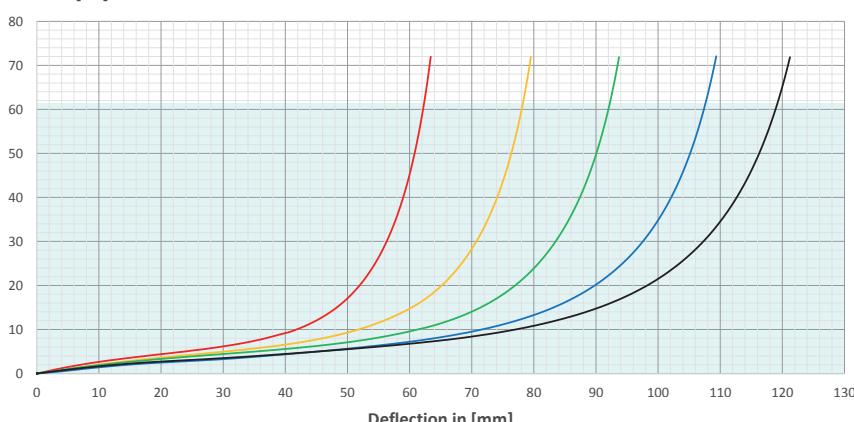


DIMENSIONS in [mm]:

Ø112 (135) x height

VULKOCELL® NH 24 - 50

Force in [kN]

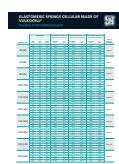


DIMENSIONS in [mm]:

Ø112 (135) x height

VULKOCELL® NH 24 - 60

To the load overview



## DESIGN RECOMMENDATION:

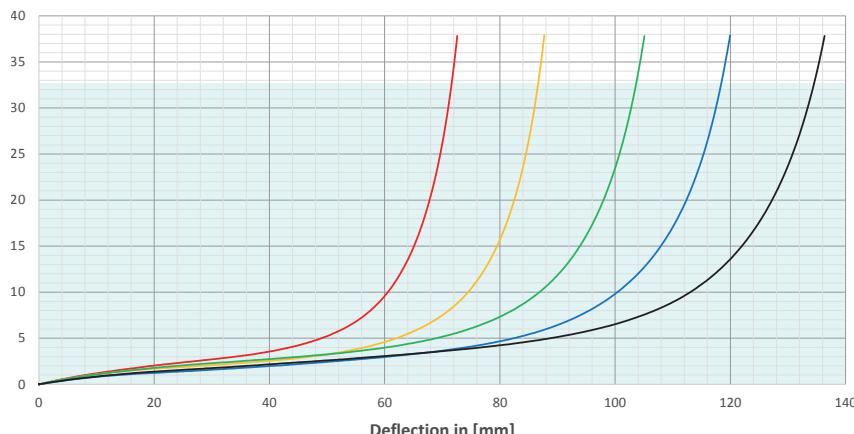
- Static compression up to a maximum of 33% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic compression up to 70% of the respective nominal height. Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING CELLULAR STANDARD PROGRAM

Nominal size Ø125 (145) – VULKOCELL®



Force in [kN]

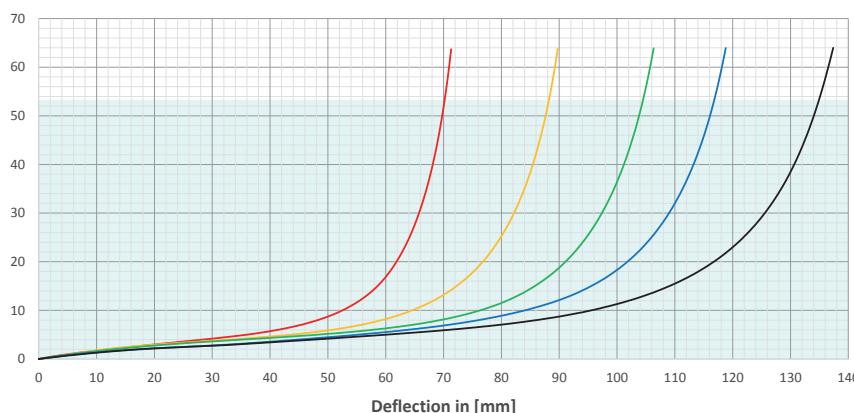


DIMENSIONS in [mm]:

Ø125 (145) x height

VULKOCELL® NH 24 - 40

Force in [kN]

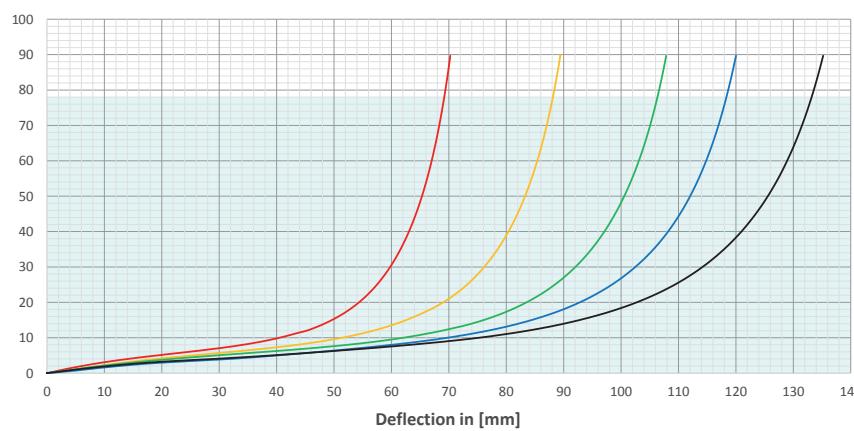


DIMENSIONS in [mm]:

Ø125 (145) x height

VULKOCELL® NH 24 - 50

Force in [kN]

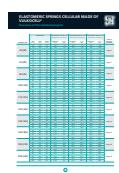


DIMENSIONS in [mm]:

Ø125 (145) x height

VULKOCELL® NH 24 - 60

To the load overview



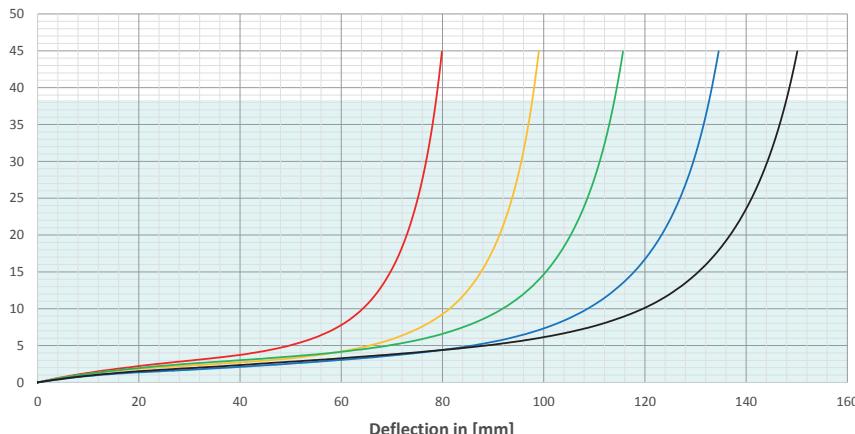
## DESIGN RECOMMENDATION:

- Static compression up to a maximum of 33% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic compression up to 70% of the respective nominal height. Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING CELLULAR STANDARD PROGRAM

Nominal size Ø140 (165) – VULKOCELL®

Force in [kN]

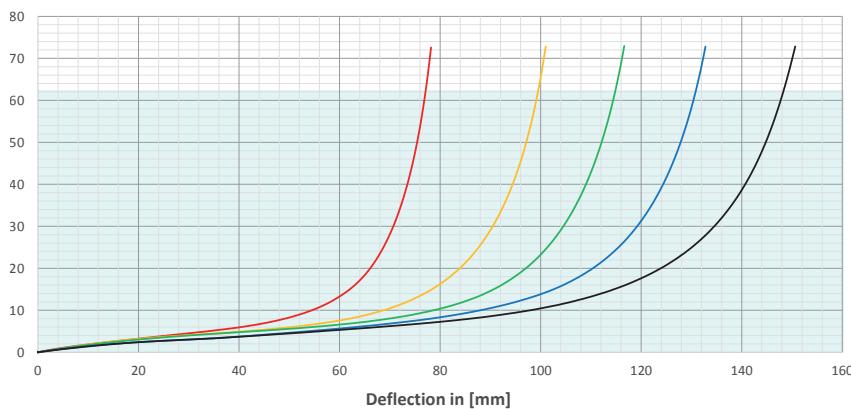


DIMENSIONS in [mm]:

Ø140 (165) x height

VULKOCELL® NH 24 - 40

Force in [kN]

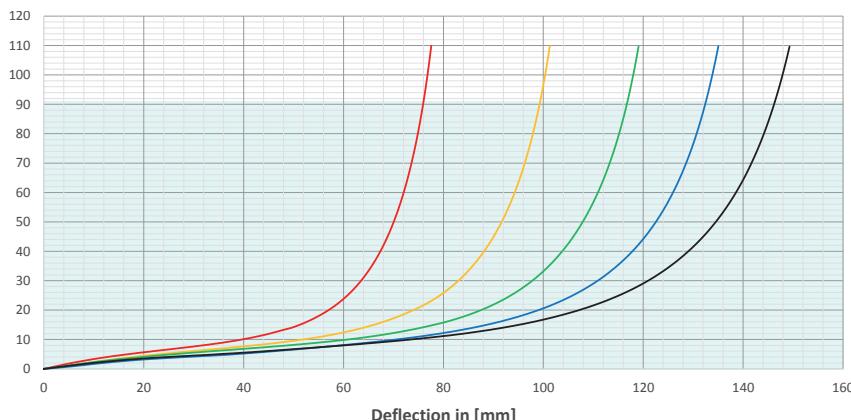


DIMENSIONS in [mm]:

Ø140 (165) x height

VULKOCELL® NH 24 - 50

Force in [kN]

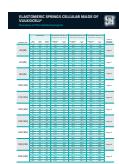


DIMENSIONS in [mm]:

Ø140 (165) x height

VULKOCELL® NH 24 - 60

To the load overview



## DESIGN RECOMMENDATION:

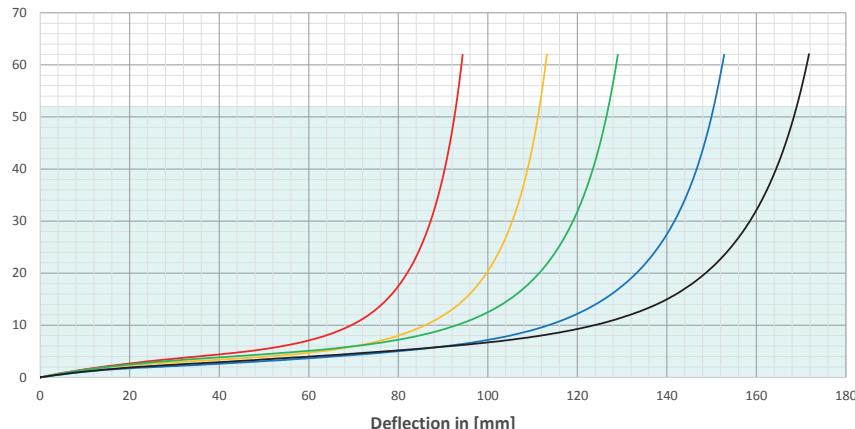
- Static compression up to a maximum of 33% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic compression up to 70% of the respective nominal height. Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING CELLULAR STANDARD PROGRAM

Nominal size Ø160 (185) – VULKOCELL®



Force in [kN]



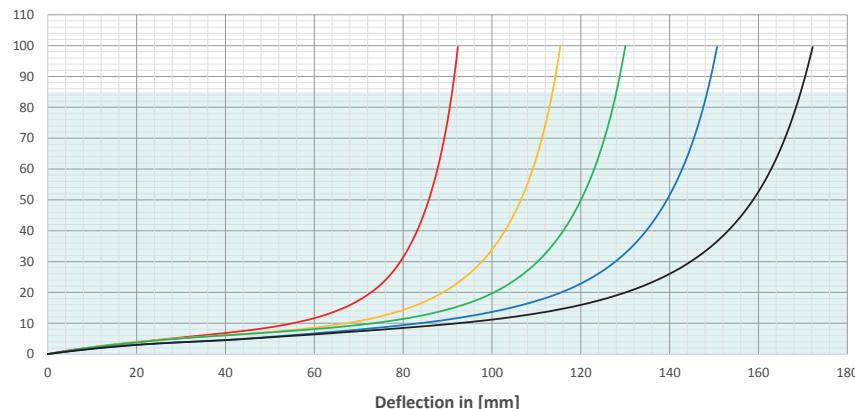
DIMENSIONS in [mm]:

Ø160 (185) x height

VULKOCELL® NH 24 - 40

| HEIGHT<br>[mm] | MAXIMUM<br>DYNAMIC LOAD<br>CAPACITY |               |                               | ITEM NO.              |           |
|----------------|-------------------------------------|---------------|-------------------------------|-----------------------|-----------|
|                | Deflection<br>[%]                   | Force<br>[kN] | External thread<br>[M16 x 40] | Inner thread<br>[M16] |           |
| 131            | 70                                  | 91.7          | 52.2                          | 254135153             | 254135053 |
| 161            | 70                                  | 112.7         | 52.2                          | 254136153             | 254136053 |
| 185            | 70                                  | 129.5         | 52.2                          | 254137153             | 254137053 |
| 211            | 70                                  | 147.7         | 52.2                          | 254138153             | 254138053 |
| 241            | 70                                  | 168.7         | 52.2                          | 254139153             | 254139053 |

Force in [kN]



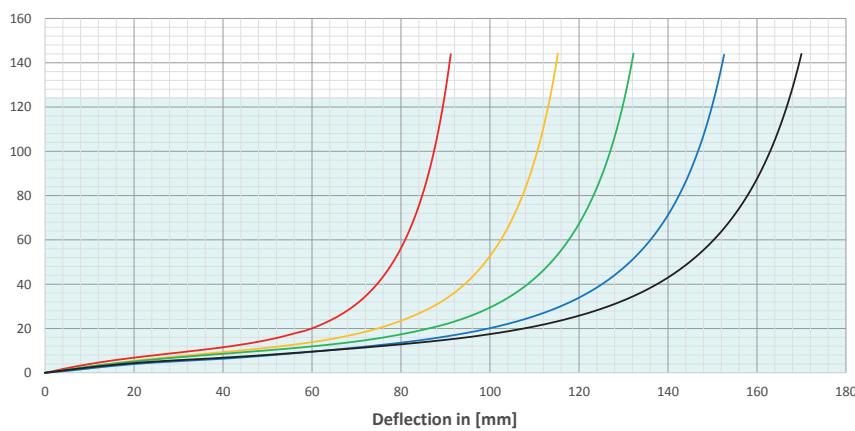
DIMENSIONS in [mm]:

Ø160 (185) x height

VULKOCELL® NH 24 - 50

| HEIGHT<br>[mm] | MAXIMUM<br>DYNAMIC LOAD<br>CAPACITY |               |                               | ITEM NO.              |           |
|----------------|-------------------------------------|---------------|-------------------------------|-----------------------|-----------|
|                | Deflection<br>[%]                   | Force<br>[kN] | External thread<br>[M16 x 40] | Inner thread<br>[M16] |           |
| 131            | 70                                  | 91.7          | 84.9                          | 254135155             | 254135055 |
| 161            | 70                                  | 112.7         | 84.9                          | 254136155             | 254136055 |
| 185            | 70                                  | 129.5         | 84.9                          | 254137155             | 254137055 |
| 211            | 70                                  | 147.7         | 84.9                          | 254138155             | 254138055 |
| 241            | 70                                  | 168.7         | 84.9                          | 254139155             | 254139055 |

Force in [kN]



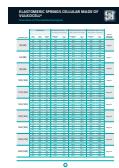
DIMENSIONS in [mm]:

Ø160 (185) x height

VULKOCELL® NH 24 - 60

| HEIGHT<br>[mm] | MAXIMUM<br>DYNAMIC LOAD<br>CAPACITY |               |                               | ITEM NO.              |           |
|----------------|-------------------------------------|---------------|-------------------------------|-----------------------|-----------|
|                | Deflection<br>[%]                   | Force<br>[kN] | External thread<br>[M16 x 40] | Inner thread<br>[M16] |           |
| 131            | 70                                  | 91.7          | 124.3                         | 254135157             | 254135057 |
| 161            | 70                                  | 112.7         | 124.3                         | 254136157             | 254136057 |
| 185            | 70                                  | 129.5         | 124.3                         | 254137157             | 254137057 |
| 211            | 70                                  | 147.7         | 124.3                         | 254138157             | 254138057 |
| 241            | 70                                  | 168.7         | 124.3                         | 254139157             | 254139057 |

To the load overview



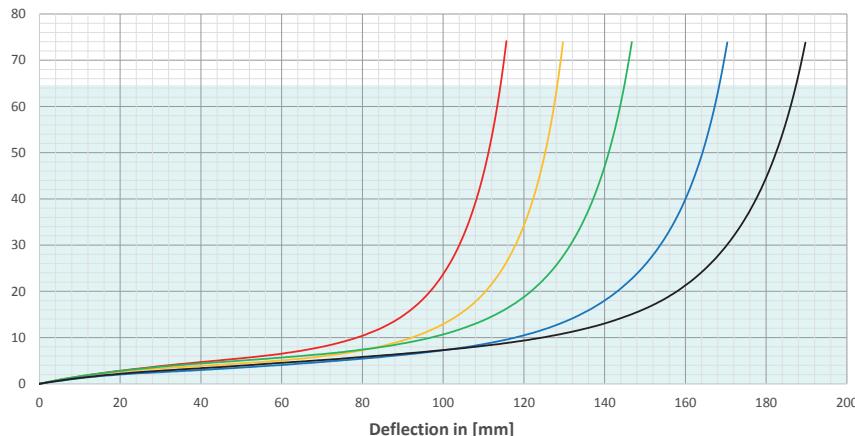
#### DESIGN RECOMMENDATION:

- Static compression up to a maximum of 33% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic compression up to 70% of the respective nominal height. Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING CELLULAR STANDARD PROGRAM

Nominal size Ø180 (210) – VULKOCELL®

Force in [kN]

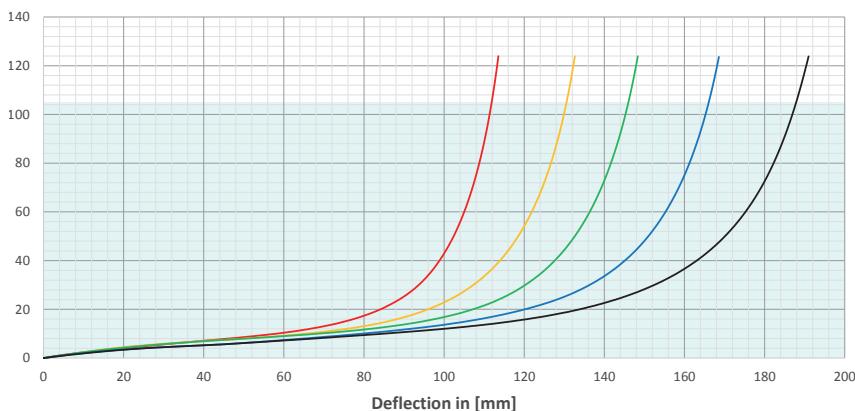


DIMENSIONS in [mm]:

Ø180 (210) x height

VULKOCELL® NH 24 - 40

Force in [kN]

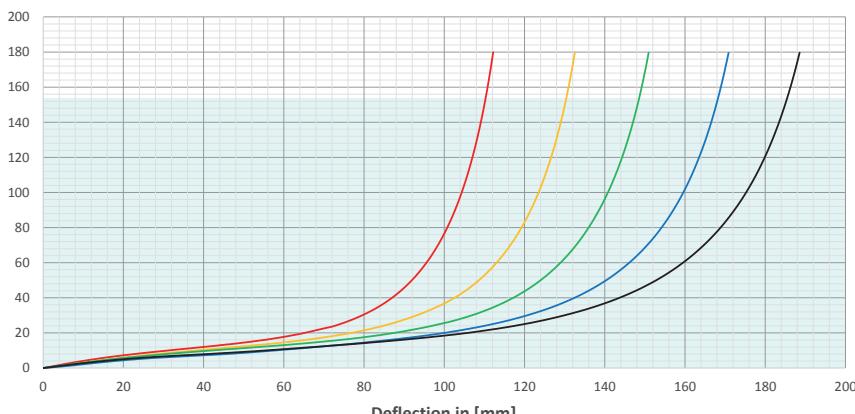


DIMENSIONS in [mm]:

Ø180 (210) x height

VULKOCELL® NH 24 - 50

Force in [kN]

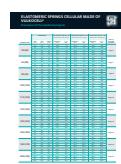


DIMENSIONS in [mm]:

Ø180 (210) x height

VULKOCELL® NH 24 - 60

To the load overview



## DESIGN RECOMMENDATION:

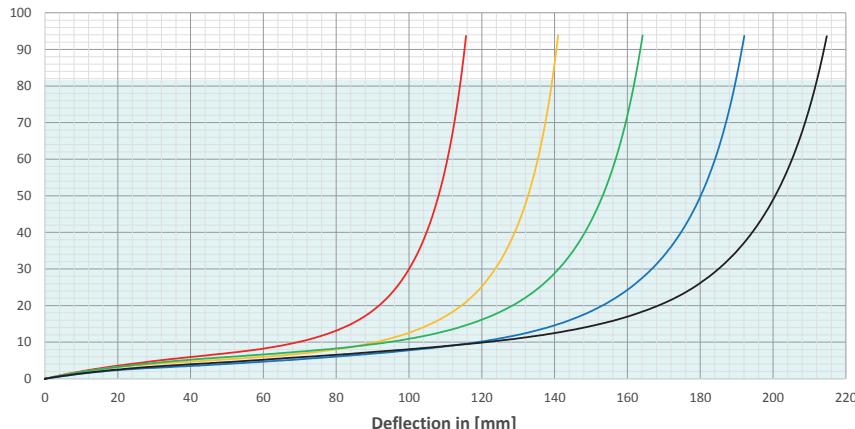
- Static compression up to a maximum of 33% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic compression up to 70% of the respective nominal height. Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING CELLULAR STANDARD PROGRAM

Nominal size Ø200 (230) – VULKOCELL®



Force in [kN]

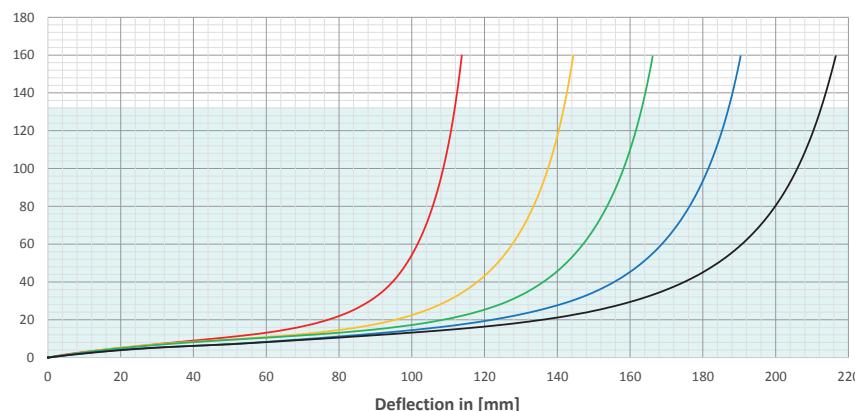


DIMENSIONS in [mm]:

Ø200 (230) x height

VULKOCELL® NH 24 - 40

Force in [kN]

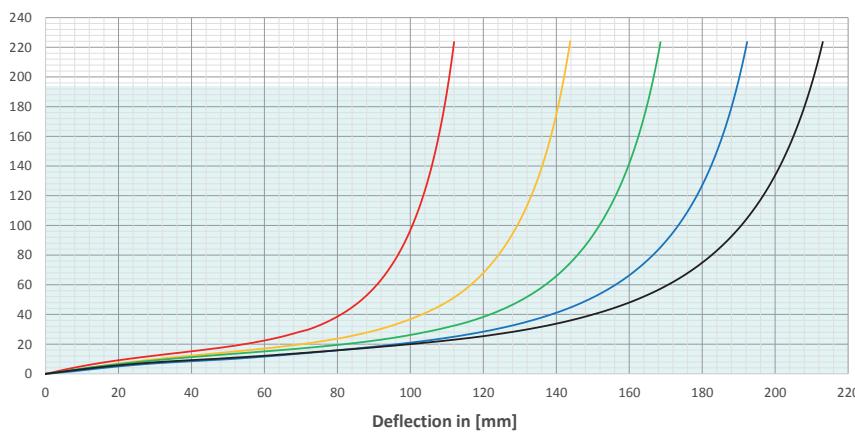


DIMENSIONS in [mm]:

Ø200 (230) x height

VULKOCELL® NH 24 - 50

Force in [kN]

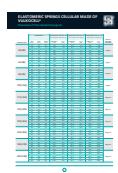


DIMENSIONS in [mm]:

Ø200 (230) x height

VULKOCELL® NH 24 - 60

To the load overview



## DESIGN RECOMMENDATION:

- Static compression up to a maximum of 33% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic compression up to 70% of the respective nominal height. Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRINGS COMPACT MADE OF DIEPOTHAN®

## Overview of the standard program

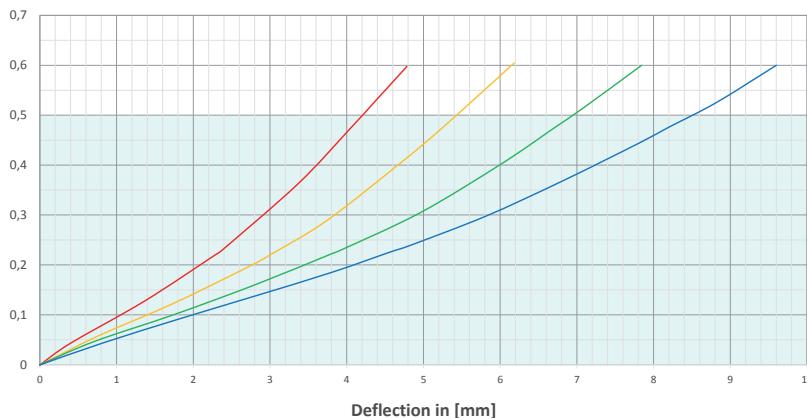
| NOMINAL SIZE      | DIMENSIONS  |             |                | DIEPOTHAN 70° SHORE A |               | DIEPOTHAN 80° SHORE A |               | DIEPOTHAN 90° SHORE A |               | LINK TO<br>THE LOAD<br>DIAGRAM |
|-------------------|-------------|-------------|----------------|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|--------------------------------|
|                   | ØD1<br>[mm] | ØD2<br>[mm] | Height<br>[mm] | Deflection<br>[mm]    | Force<br>[kN] | Deflection<br>[mm]    | Force<br>[kN] | Deflection<br>[mm]    | Force<br>[kN] |                                |
| <b>16 x 6.5</b>   | 16          | 6.5         | 12.5           | 4.38                  | 0.50          | 4.38                  | 0.90          | 3.13                  | 1.30          | Page 17                        |
|                   | 16          | 6.5         | 16.0           | 5.50                  | 0.50          | 5.50                  | 0.90          | 4.00                  | 1.30          |                                |
|                   | 16          | 6.5         | 20.0           | 7.00                  | 0.50          | 7.00                  | 0.90          | 5.00                  | 1.30          |                                |
|                   | 16          | 6.5         | 25.0           | 8.50                  | 0.50          | 8.50                  | 0.90          | 6.25                  | 1.30          |                                |
| <b>20 x 8.5</b>   | 20          | 8.5         | 16.0           | 5.50                  | 0.80          | 5.50                  | 1.40          | 4.00                  | 2.00          | Page 18                        |
|                   | 20          | 8.5         | 20.0           | 7.00                  | 0.80          | 7.00                  | 1.40          | 5.00                  | 2.00          |                                |
|                   | 20          | 8.5         | 25.0           | 8.50                  | 0.80          | 8.50                  | 1.40          | 6.25                  | 2.00          |                                |
|                   | 20          | 8.5         | 32.0           | 11.00                 | 0.80          | 11.00                 | 1.40          | 8.00                  | 2.00          |                                |
| <b>25 x 10.5</b>  | 25          | 10.5        | 20.0           | 7.00                  | 1.30          | 7.00                  | 2.15          | 5.00                  | 3.20          | Page 19                        |
|                   | 25          | 10.5        | 25.0           | 8.50                  | 1.30          | 8.50                  | 2.15          | 6.25                  | 3.20          |                                |
|                   | 25          | 10.5        | 32.0           | 11.00                 | 1.30          | 11.00                 | 2.15          | 8.00                  | 3.20          |                                |
|                   | 25          | 10.5        | 40.0           | 14.00                 | 1.30          | 14.00                 | 2.15          | 10.00                 | 3.20          |                                |
| <b>32 x 13.5</b>  | 32          | 13.5        | 32.0           | 11.00                 | 2.10          | 11.00                 | 3.65          | 8.00                  | 5.30          | Page 20                        |
|                   | 32          | 13.5        | 40.0           | 14.00                 | 2.10          | 14.00                 | 3.65          | 10.00                 | 5.30          |                                |
|                   | 32          | 13.5        | 50.0           | 17.50                 | 2.10          | 17.50                 | 3.65          | 12.50                 | 5.30          |                                |
|                   | 32          | 13.5        | 63.0           | 22.00                 | 2.10          | 22.00                 | 3.65          | 15.75                 | 5.30          |                                |
| <b>40 x 13.5</b>  | 40          | 13.5        | 32.0           | 11.00                 | 3.50          | 11.00                 | 6.10          | 8.00                  | 8.40          | Page 21                        |
|                   | 40          | 13.5        | 40.0           | 14.00                 | 3.50          | 14.00                 | 6.10          | 10.00                 | 8.40          |                                |
|                   | 40          | 13.5        | 50.0           | 17.50                 | 3.50          | 17.50                 | 6.10          | 12.50                 | 8.40          |                                |
|                   | 40          | 13.5        | 63.0           | 22.00                 | 3.50          | 22.00                 | 6.10          | 15.75                 | 8.40          |                                |
|                   | 40          | 13.5        | 80.0           | 28.00                 | 3.50          | 28.00                 | 6.10          | 20.00                 | 8.40          |                                |
| <b>50 x 17.0</b>  | 50          | 17.0        | 32.0           | 11.00                 | 5.40          | 11.00                 | 9.40          | 8.00                  | 12.50         | Page 22                        |
|                   | 50          | 17.0        | 40.0           | 14.00                 | 5.40          | 14.00                 | 9.40          | 10.00                 | 12.50         |                                |
|                   | 50          | 17.0        | 50.0           | 17.50                 | 5.40          | 17.50                 | 9.40          | 12.50                 | 12.50         |                                |
|                   | 50          | 17.0        | 63.0           | 22.00                 | 5.40          | 22.00                 | 9.40          | 15.75                 | 12.50         |                                |
|                   | 50          | 17.0        | 80.0           | 28.00                 | 5.40          | 28.00                 | 9.40          | 20.00                 | 12.50         |                                |
|                   | 50          | 17.0        | 100.0          | 35.00                 | 5.40          | 35.00                 | 9.40          | 25.00                 | 12.50         |                                |
| <b>63 x 17.0</b>  | 63          | 17.0        | 32.0           | 11.00                 | 9.40          | 11.00                 | 14.20         | 8.00                  | 20.00         | Page 23                        |
|                   | 63          | 17.0        | 40.0           | 14.00                 | 9.40          | 14.00                 | 14.20         | 10.00                 | 20.00         |                                |
|                   | 63          | 17.0        | 50.0           | 17.50                 | 9.40          | 17.50                 | 14.20         | 12.50                 | 20.00         |                                |
|                   | 63          | 17.0        | 63.0           | 22.00                 | 9.40          | 22.00                 | 14.20         | 15.75                 | 20.00         |                                |
|                   | 63          | 17.0        | 80.0           | 28.00                 | 9.40          | 28.00                 | 14.20         | 20.00                 | 20.00         |                                |
|                   | 63          | 17.0        | 100.0          | 35.00                 | 9.40          | 35.00                 | 14.20         | 25.00                 | 20.00         |                                |
|                   | 63          | 17.0        | 125.0          | 43.50                 | 9.40          | 43.50                 | 14.20         | 31.25                 | 20.00         |                                |
| <b>80 x 21.0</b>  | 80          | 21.0        | 32.0           | 11.00                 | 15.00         | 11.00                 | 25.00         | 8.00                  | 33.00         | Page 24                        |
|                   | 80          | 21.0        | 40.0           | 14.00                 | 15.00         | 14.00                 | 25.00         | 10.00                 | 33.00         |                                |
|                   | 80          | 21.0        | 50.0           | 17.50                 | 15.00         | 17.50                 | 25.00         | 12.50                 | 33.00         |                                |
|                   | 80          | 21.0        | 63.0           | 22.00                 | 15.00         | 22.00                 | 25.00         | 15.75                 | 33.00         |                                |
|                   | 80          | 21.0        | 80.0           | 28.00                 | 15.00         | 28.00                 | 25.00         | 20.00                 | 33.00         |                                |
|                   | 80          | 21.0        | 100.0          | 35.00                 | 15.00         | 35.00                 | 25.00         | 25.00                 | 33.00         |                                |
|                   | 80          | 21.0        | 125.0          | 43.50                 | 15.00         | 43.50                 | 25.00         | 31.25                 | 33.00         |                                |
| <b>100 x 21.0</b> | 100         | 21.0        | 32.0           | 11.00                 | 24.00         | 11.00                 | 42.00         | 8.00                  | 58.00         | Page 25                        |
|                   | 100         | 21.0        | 40.0           | 14.00                 | 24.00         | 14.00                 | 42.00         | 10.00                 | 58.00         |                                |
|                   | 100         | 21.0        | 50.0           | 17.50                 | 24.00         | 17.50                 | 42.00         | 12.50                 | 58.00         |                                |
|                   | 100         | 21.0        | 63.0           | 22.00                 | 24.00         | 22.00                 | 42.00         | 15.75                 | 58.00         |                                |
|                   | 100         | 21.0        | 80.0           | 28.00                 | 24.00         | 28.00                 | 42.00         | 20.00                 | 58.00         |                                |
|                   | 100         | 21.0        | 100.0          | 35.00                 | 24.00         | 35.00                 | 42.00         | 25.00                 | 58.00         |                                |
|                   | 100         | 21.0        | 125.0          | 43.50                 | 24.00         | 43.50                 | 42.00         | 31.75                 | 58.00         |                                |
| <b>125 x 27.0</b> | 125         | 27.0        | 32.0           | 11.00                 | 39.00         | 11.00                 | 67.00         | 8.00                  | 88.00         | Page 26                        |
|                   | 125         | 27.0        | 40.0           | 14.00                 | 39.00         | 14.00                 | 67.00         | 10.00                 | 88.00         |                                |
|                   | 125         | 27.0        | 50.0           | 17.50                 | 39.00         | 17.50                 | 67.00         | 12.50                 | 88.00         |                                |
|                   | 125         | 27.0        | 63.0           | 22.00                 | 39.00         | 22.00                 | 67.00         | 15.75                 | 88.00         |                                |
|                   | 125         | 27.0        | 80.0           | 28.00                 | 39.00         | 28.00                 | 67.00         | 20.00                 | 88.00         |                                |
|                   | 125         | 27.0        | 100.0          | 35.00                 | 39.00         | 35.00                 | 67.00         | 25.00                 | 88.00         |                                |
|                   | 125         | 27.0        | 125.0          | 43.50                 | 39.00         | 43.50                 | 67.00         | 31.75                 | 88.00         |                                |
|                   | 125         | 27.0        | 160.0          | 56.00                 | 39.00         | 56.00                 | 67.00         | 40.00                 | 88.00         |                                |

# ELASTOMERIC SPRING COMPACT STANDARD PROGRAM

Nominal size Ø16 x Ø6.5 – DIEPOTHAN®



Force in [kN]

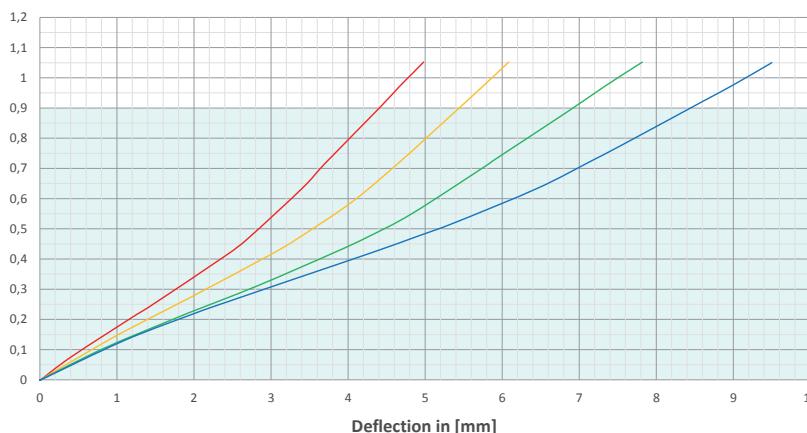


DIMENSIONS in [mm]:  
Ø16 x Ø6.5 x height  
DIEPOTHAN® 70° Shore A black



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |           |
|----------------|-------------------------------|------------|----------|-----------|
|                | Deflection [%]                | Force [kN] |          |           |
| 12.5           | 35                            | 4.38       | 0.5      | 730161970 |
| 16             | 35                            | 5.60       | 0.5      | 730162970 |
| 20             | 35                            | 7.00       | 0.5      | 730163970 |
| 25             | 35                            | 8.75       | 0.5      | 730164970 |

Force in [kN]

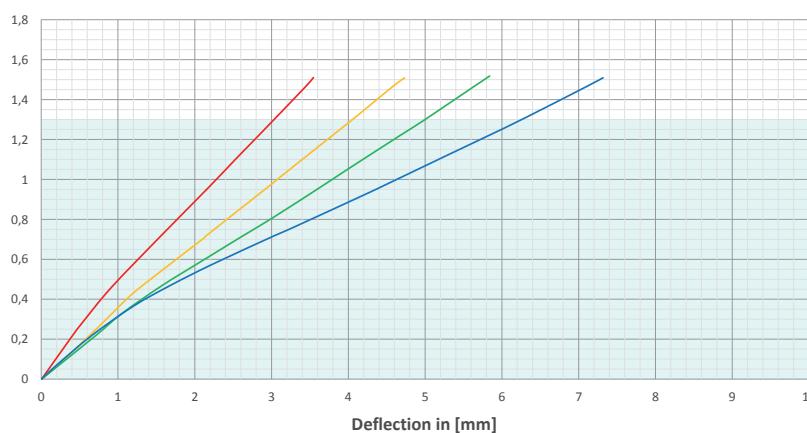


DIMENSIONS in [mm]:  
Ø16 x Ø6.5 x height  
DIEPOTHAN® 80° Shore A yellow



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |           |
|----------------|-------------------------------|------------|----------|-----------|
|                | Deflection [%]                | Force [kN] |          |           |
| 12.5           | 35                            | 4.38       | 0.9      | 730161980 |
| 16             | 35                            | 5.60       | 0.9      | 730162980 |
| 20             | 35                            | 7.00       | 0.9      | 730163980 |
| 25             | 35                            | 8.75       | 0.9      | 730164980 |

Force in [kN]



DIMENSIONS in [mm]:  
Ø16 x Ø6.5 x height  
DIEPOTHAN® 90° Shore A red



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |           |
|----------------|-------------------------------|------------|----------|-----------|
|                | Deflection [%]                | Force [kN] |          |           |
| 12.5           | 25                            | 3.13       | 1.3      | 730161990 |
| 16             | 25                            | 4.00       | 1.3      | 730162990 |
| 20             | 25                            | 5.00       | 1.3      | 730163990 |
| 25             | 25                            | 6.25       | 1.3      | 730164990 |

To the load overview



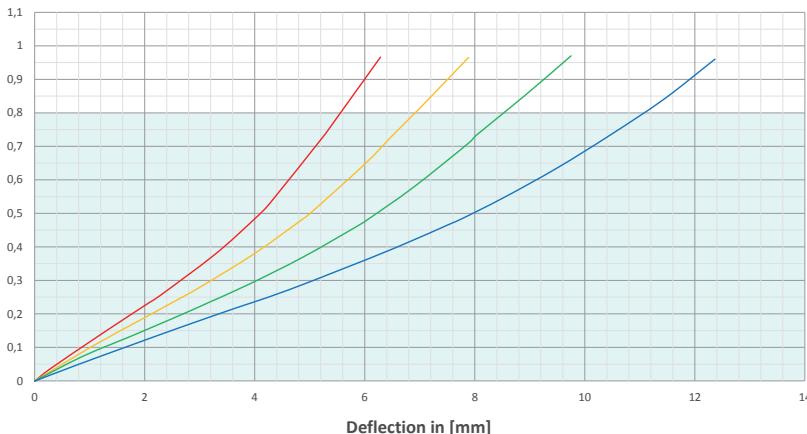
#### DESIGN RECOMMENDATION:

- Static compression up to a maximum of 10% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic deflection within the specified ranges (35% at 70° + 80° Shore A / 25% at 90° Shore A). Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING COMPACT STANDARD PROGRAM

Nominal size Ø20 x Ø8.5 – DIEPOTHAN®

Force in [kN]

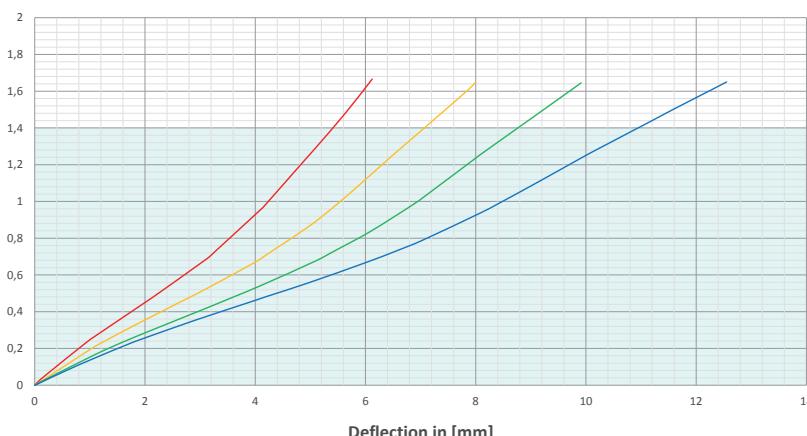


DIMENSIONS in [mm]:  
Ø20 x Ø8.5 x height  
DIEPOTHAN® 70° Shore A black



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |           |
|----------------|-------------------------------|------------|----------|-----------|
|                | Deflection [%]                | Force [kN] |          |           |
| 16             | 35                            | 5.60       | 0.8      | 730201970 |
| 20             | 35                            | 7.00       | 0.8      | 730202970 |
| 25             | 35                            | 8.75       | 0.8      | 730203970 |
| 32             | 35                            | 11.20      | 0.8      | 730204970 |

Force in [kN]

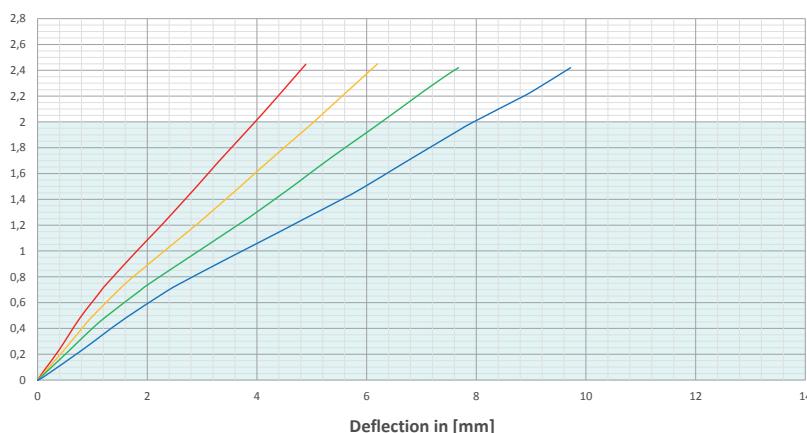


DIMENSIONS in [mm]:  
Ø20 x Ø8.5 x height  
DIEPOTHAN® 80° Shore A yellow



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |           |
|----------------|-------------------------------|------------|----------|-----------|
|                | Deflection [%]                | Force [kN] |          |           |
| 16             | 35                            | 5.60       | 1.4      | 730201980 |
| 20             | 35                            | 7.00       | 1.4      | 730202980 |
| 25             | 35                            | 8.75       | 1.4      | 730203980 |
| 32             | 35                            | 11.20      | 1.4      | 730204980 |

Force in [kN]



DIMENSIONS in [mm]:  
Ø20 x Ø8.5 x height  
DIEPOTHAN® 90° Shore A red



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |           |
|----------------|-------------------------------|------------|----------|-----------|
|                | Deflection [%]                | Force [kN] |          |           |
| 16             | 25                            | 4.00       | 2        | 730201990 |
| 20             | 25                            | 5.00       | 2        | 730202990 |
| 25             | 25                            | 6.25       | 2        | 730203990 |
| 32             | 25                            | 8.00       | 2        | 730204990 |

To the load overview



#### DESIGN RECOMMENDATION:

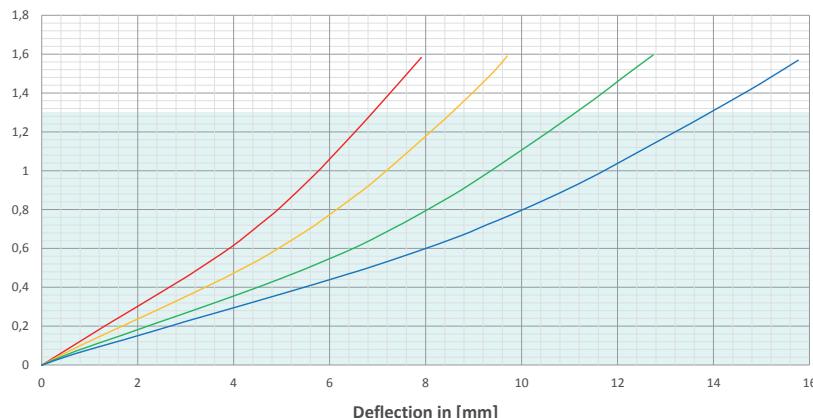
- Static compression up to a maximum of 10% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic deflection within the specified ranges (35% at 70° + 80° Shore A / 25% at 90° Shore A). Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING COMPACT STANDARD PROGRAM

Nominal size Ø25 x Ø10.5 – DIEPOTHAN®



Force in [kN]

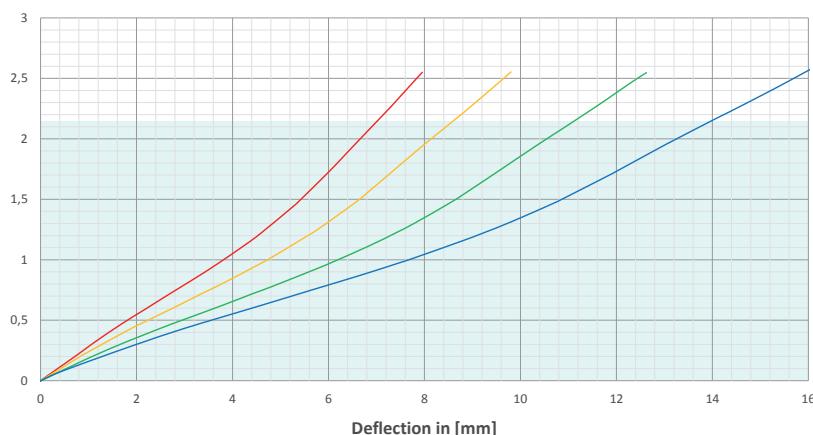


DIMENSIONS in [mm]:  
Ø25 x Ø10.5 x height  
DIEPOTHAN® 70° Shore A black



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |           |
|----------------|-------------------------------|------------|----------|-----------|
|                | Deflection [%]                | Force [kN] |          |           |
| 20             | 35                            | 7.00       | 1.3      | 730251970 |
| 25             | 35                            | 8.75       | 1.3      | 730252970 |
| 32             | 35                            | 11.20      | 1.3      | 730253970 |
| 40             | 35                            | 14.00      | 1.3      | 730254970 |

Force in [kN]

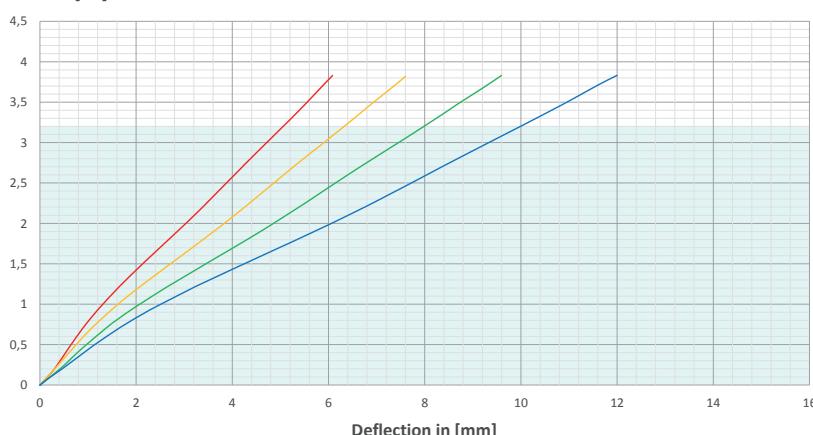


DIMENSIONS in [mm]:  
Ø25 x Ø10.5 x height  
DIEPOTHAN® 80° Shore A yellow



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |           |
|----------------|-------------------------------|------------|----------|-----------|
|                | Deflection [%]                | Force [kN] |          |           |
| 20             | 35                            | 7.00       | 2.15     | 730251980 |
| 25             | 35                            | 8.75       | 2.15     | 730252980 |
| 32             | 35                            | 11.20      | 2.15     | 730253980 |
| 40             | 35                            | 14.00      | 2.15     | 730255980 |

Force in [kN]



DIMENSIONS in [mm]:  
Ø25 x Ø10.5 x height  
DIEPOTHAN® 90° Shore A red



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |           |
|----------------|-------------------------------|------------|----------|-----------|
|                | Deflection [%]                | Force [kN] |          |           |
| 20             | 25                            | 5.00       | 3.2      | 730251990 |
| 25             | 25                            | 6.25       | 3.2      | 730252990 |
| 32             | 25                            | 8.00       | 3.2      | 730253990 |
| 40             | 25                            | 10.00      | 3.2      | 730254990 |

To the load overview



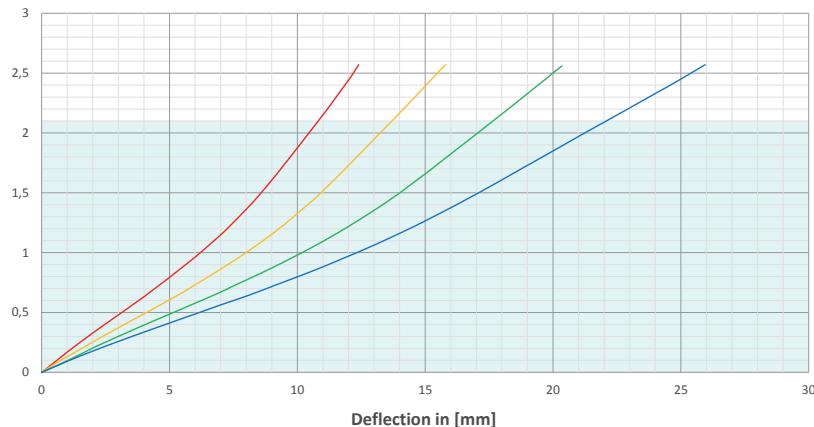
#### DESIGN RECOMMENDATION:

- Static compression up to a maximum of 10% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic deflection within the specified ranges (35% at 70° + 80° Shore A / 25% at 90° Shore A). Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING COMPACT STANDARD PROGRAM

Nominal size Ø32 x Ø13.5 – DIEPOTHAN®

Force in [kN]

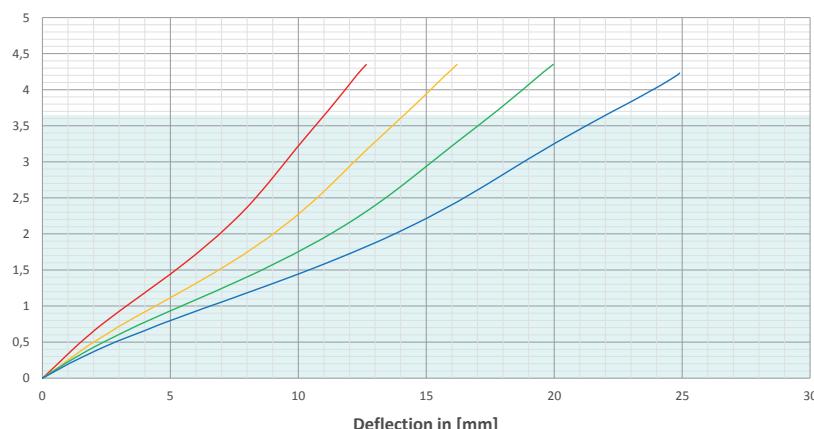


DIMENSIONS in [mm]:  
Ø32 x Ø13.5 x height  
DIEPOTHAN® 70° Shore A black



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |
|----------------|-------------------------------|------------|----------|
|                | Deflection [%]                | Force [kN] |          |
| 32             | 35                            | 11.20      | 2.1      |
| 40             | 35                            | 14.00      | 2.1      |
| 50             | 35                            | 17.50      | 2.1      |
| 63             | 35                            | 22.05      | 2.1      |

Force in [kN]

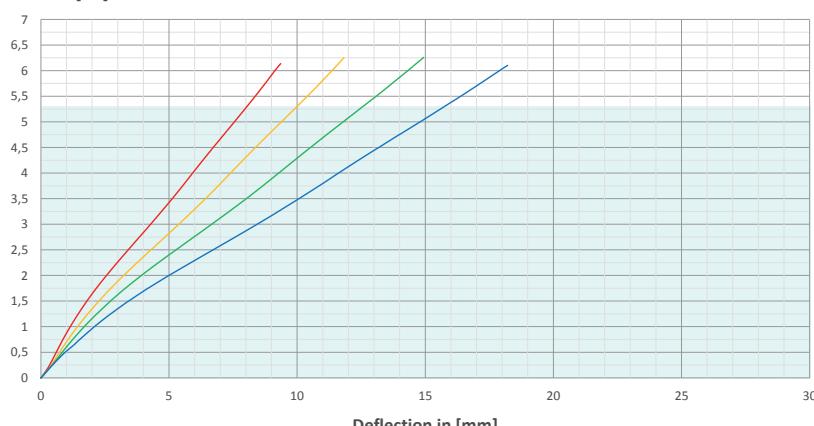


DIMENSIONS in [mm]:  
Ø32 x Ø13.5 x height  
DIEPOTHAN® 80° Shore A yellow



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |
|----------------|-------------------------------|------------|----------|
|                | Deflection [%]                | Force [kN] |          |
| 32             | 35                            | 11.20      | 3.65     |
| 40             | 35                            | 14.00      | 3.65     |
| 50             | 35                            | 17.50      | 3.65     |
| 63             | 35                            | 22.05      | 3.65     |

Force in [kN]



DIMENSIONS in [mm]:  
Ø32 x Ø13.5 x height  
DIEPOTHAN® 90° Shore A red



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |
|----------------|-------------------------------|------------|----------|
|                | Deflection [%]                | Force [kN] |          |
| 32             | 25                            | 8.00       | 5.3      |
| 40             | 25                            | 10.00      | 5.3      |
| 50             | 25                            | 12.50      | 5.3      |
| 63             | 25                            | 15.75      | 5.3      |

To the load overview



## DESIGN RECOMMENDATION:

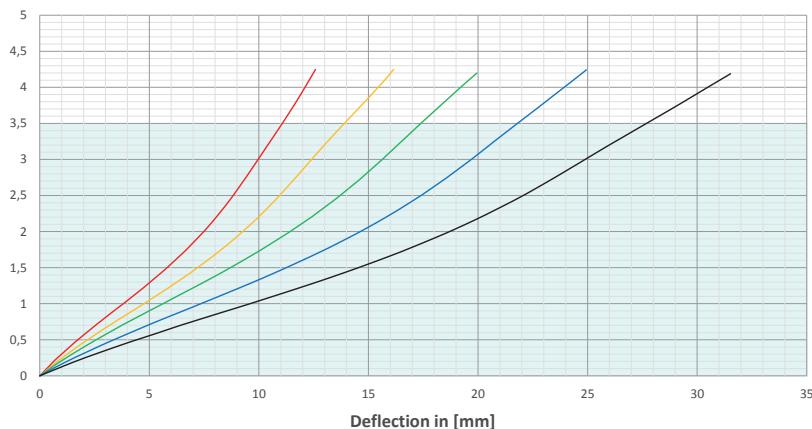
- Static compression up to a maximum of 10% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic deflection within the specified ranges (35% at 70° + 80° Shore A / 25% at 90° Shore A). Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING COMPACT STANDARD PROGRAM

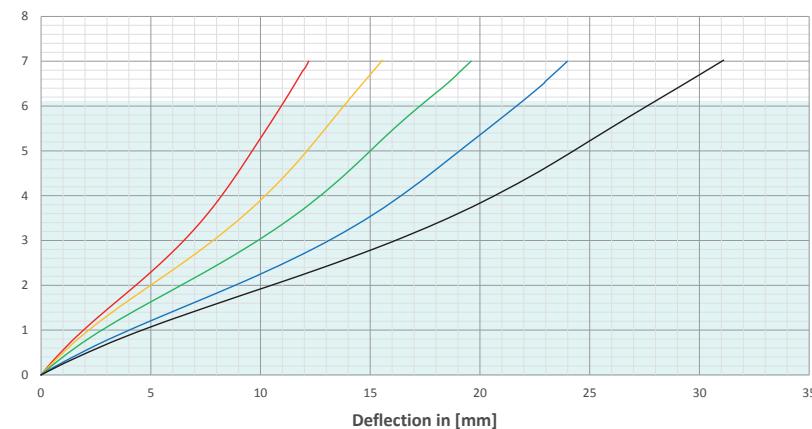
Nominal size Ø40 x Ø13.5 – DIEPOTHAN®



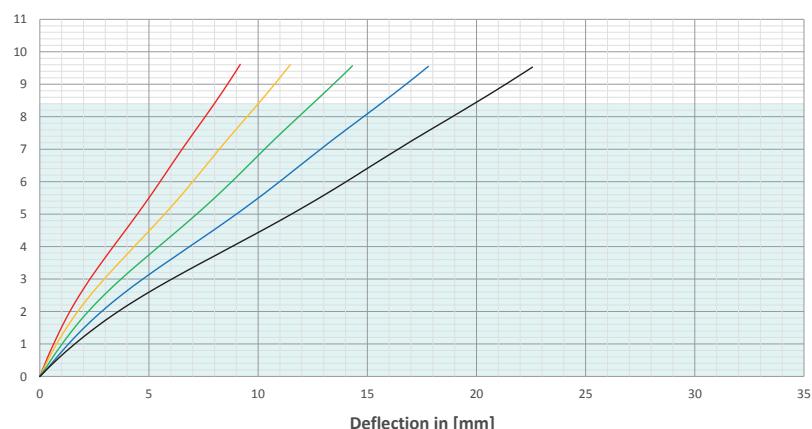
Force in [kN]



Force in [kN]



Force in [kN]



To the load overview



## DESIGN RECOMMENDATION:

- Static compression up to a maximum of 10% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic deflection within the specified ranges (35% at 70° + 80° Shore A / 25% at 90° Shore A). Higher dynamic loads are feasible but may reduce the lifespan.

DIMENSIONS in [mm]:

Ø40 x Ø13.5 x height

DIEPOTHAN® 70° Shore A black



DIMENSIONS in [mm]:

Ø40 x Ø13.5 x height

DIEPOTHAN® 80° Shore A yellow



HEIGHT [mm]

MAXIMUM DYNAMIC LOAD CAPACITY

DEFLECTION [%]

DEFLECTION [mm]

FORCE [kN]

ITEM NO.

32 35 11.20 3.5

40 35 14.00 3.5

50 35 17.50 3.5

63 35 22.05 3.5

80 35 28.00 3.5

730401970

730402970

730403970

730404970

730405970

HEIGHT [mm]

MAXIMUM DYNAMIC LOAD CAPACITY

DEFLECTION [%]

DEFLECTION [mm]

FORCE [kN]

ITEM NO.

32 35 11.20 6.1

40 35 14.00 6.1

50 35 17.50 6.1

63 35 22.05 6.1

80 35 28.00 6.1

730401980

730402980

730403980

730404980

730405980



HEIGHT [mm]

MAXIMUM DYNAMIC LOAD CAPACITY

DEFLECTION [%]

DEFLECTION [mm]

FORCE [kN]

ITEM NO.

32 25 8.00 8.4

40 25 10.00 8.4

50 25 12.50 8.4

63 25 15.75 8.4

80 25 20.00 8.4

730401970

730402970

730403970

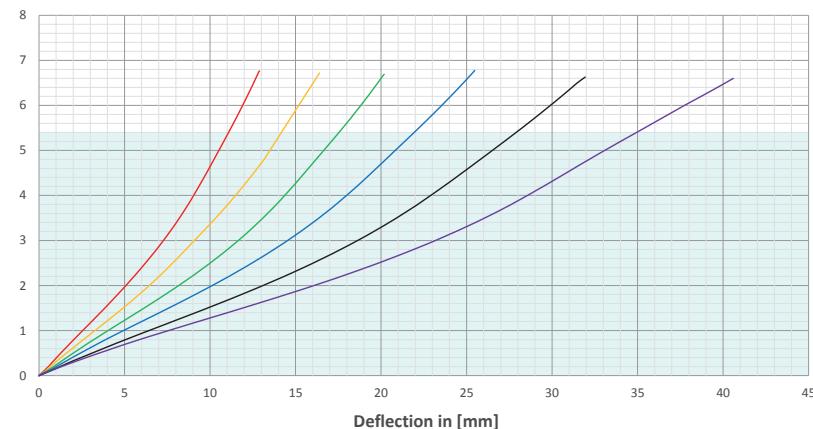
730404970

730405970

# ELASTOMERIC SPRING COMPACT STANDARD PROGRAM

Nominal size Ø50 x Ø17 – DIEPOTHAN®

Force in [kN]



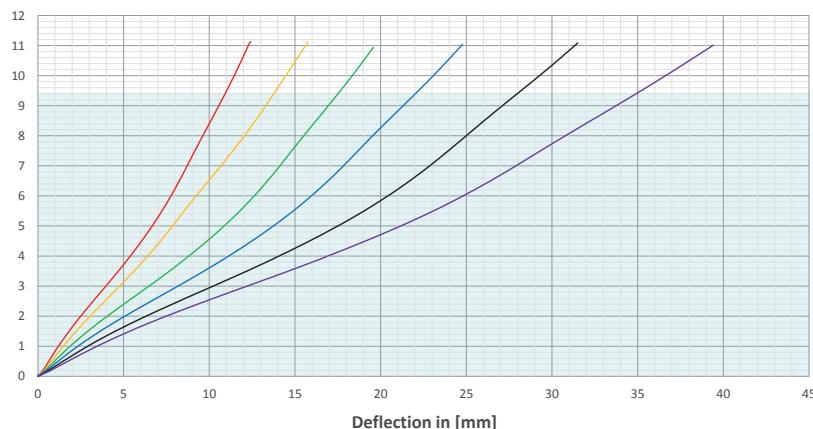
DIMENSIONS in [mm]:

Ø50 x Ø17 x height

DIEPOTHAN® 70° Shore A black



Force in [kN]



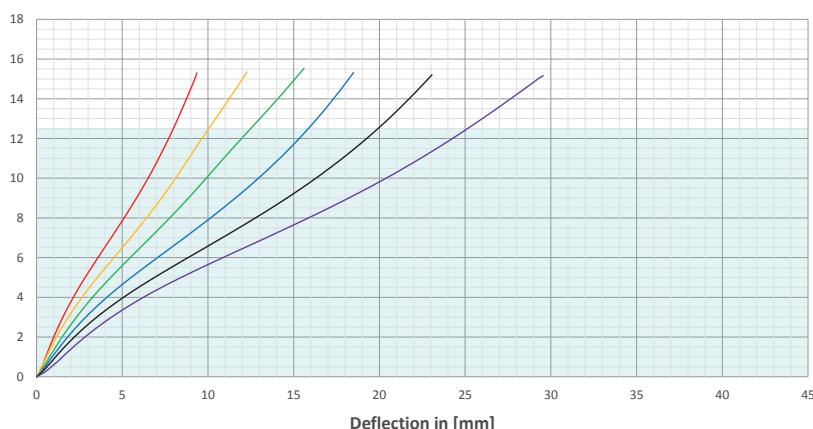
DIMENSIONS in [mm]:

Ø50 x Ø17 x height

DIEPOTHAN® 80° Shore A yellow



Force in [kN]



DIMENSIONS in [mm]:

Ø50 x Ø17 x height

DIEPOTHAN® 90° Shore A red



To the load overview



## DESIGN RECOMMENDATION:

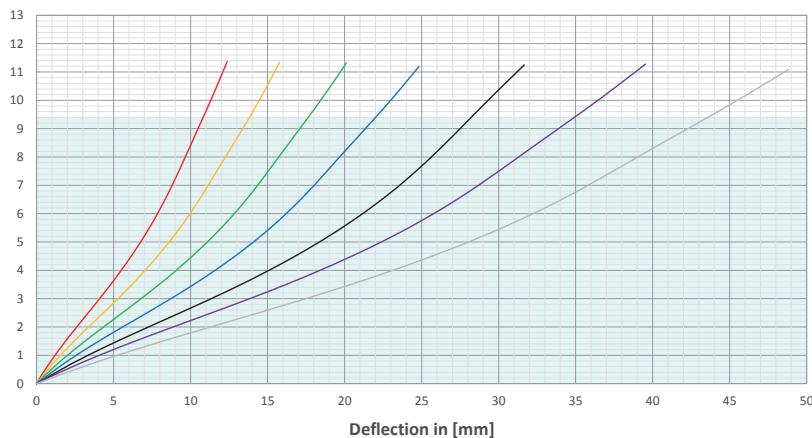
- Static compression up to a maximum of 10% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic deflection within the specified ranges (35% at 70° + 80° Shore A / 25% at 90° Shore A). Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING COMPACT STANDARD PROGRAM

Nominal size Ø63 x Ø17 – DIEPOTHAN®



Force in [kN]

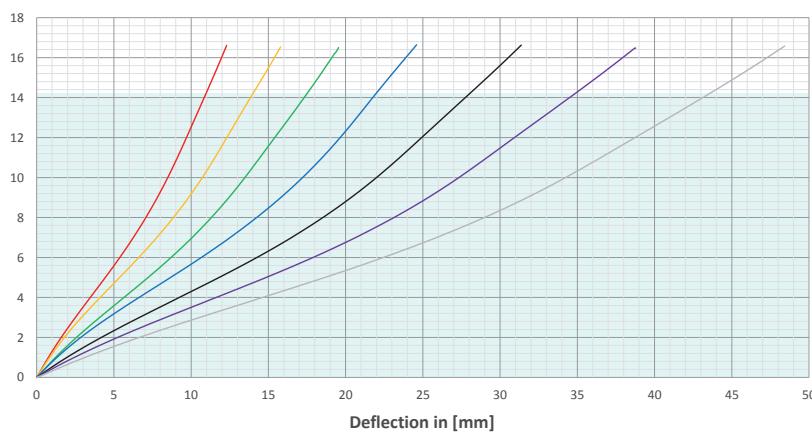


DIMENSIONS in [mm]:  
Ø63 x Ø17 x height  
DIEPOTHAN® 70° Shore A black

| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |
|----------------|-------------------------------|------------|----------|
|                | Deflection [%]                | Force [kN] |          |
| 32             | 35                            | 11.20      | 9.4      |
| 40             | 35                            | 14.00      | 9.4      |
| 50             | 35                            | 17.50      | 9.4      |
| 63             | 35                            | 22.05      | 9.4      |
| 80             | 35                            | 28.00      | 9.4      |
| 100            | 35                            | 35.00      | 9.4      |
| 125            | 35                            | 43.75      | 9.4      |



Force in [kN]

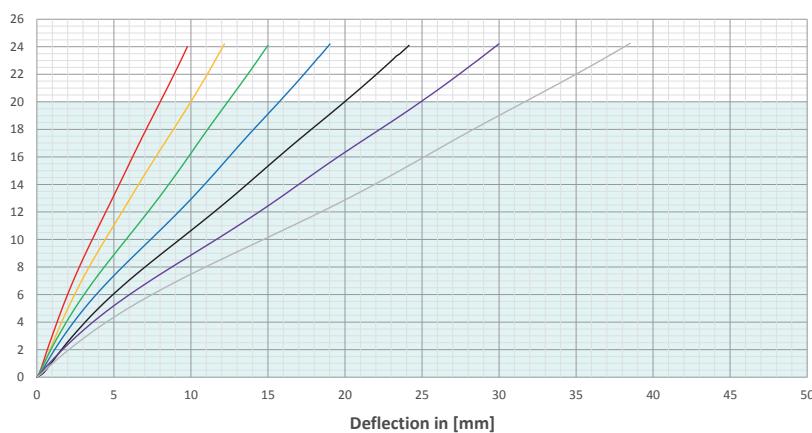


DIMENSIONS in [mm]:  
Ø63 x Ø17 x height  
DIEPOTHAN® 80° Shore A yellow

| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |
|----------------|-------------------------------|------------|----------|
|                | Deflection [%]                | Force [kN] |          |
| 32             | 35                            | 11.20      | 14.2     |
| 40             | 35                            | 14.00      | 14.2     |
| 50             | 35                            | 17.50      | 14.2     |
| 63             | 35                            | 22.05      | 14.2     |
| 80             | 35                            | 28.00      | 14.2     |
| 100            | 35                            | 35.00      | 14.2     |
| 125            | 35                            | 43.75      | 14.2     |



Force in [kN]



DIMENSIONS in [mm]:  
Ø63 x Ø17 x height  
DIEPOTHAN® 90° Shore A red

| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |
|----------------|-------------------------------|------------|----------|
|                | Deflection [%]                | Force [kN] |          |
| 32             | 25                            | 8.00       | 20       |
| 40             | 25                            | 10.00      | 20       |
| 50             | 25                            | 12.50      | 20       |
| 63             | 25                            | 15.75      | 20       |
| 80             | 25                            | 20.00      | 20       |
| 100            | 25                            | 25.00      | 20       |
| 125            | 25                            | 31.25      | 20       |



To the load overview



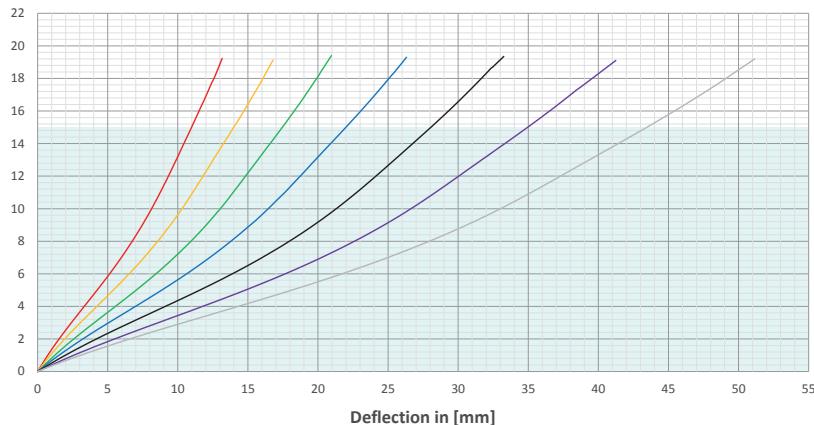
## DESIGN RECOMMENDATION:

- Static compression up to a maximum of 10% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic deflection within the specified ranges (35% at 70° + 80° Shore A / 25% at 90° Shore A). Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING COMPACT STANDARD PROGRAM

Nominal size Ø80 x Ø21 – DIEPOTHAN®

Force in [kN]



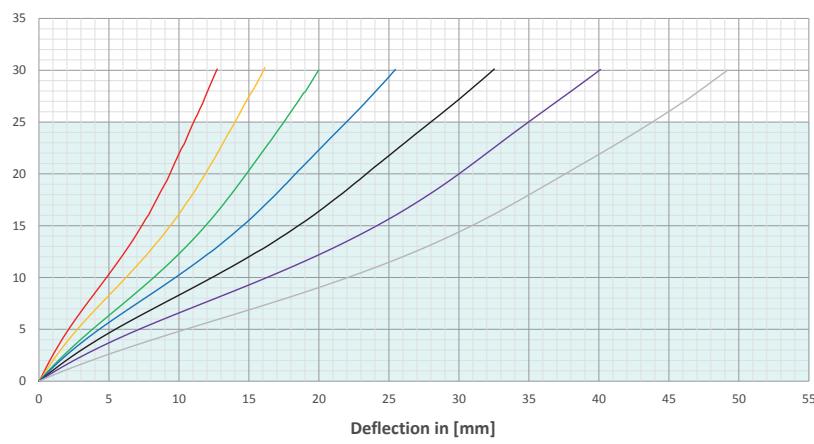
DIMENSIONS in [mm]:

Ø80 x Ø21 x height

DIEPOTHAN® 70° Shore A black



Force in [kN]



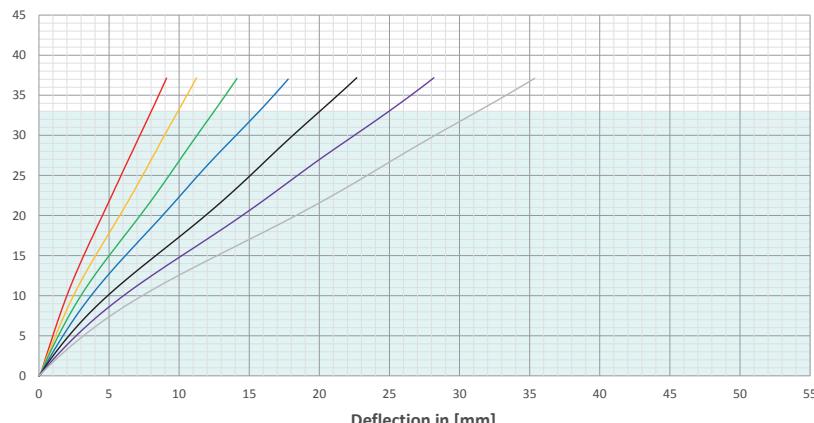
DIMENSIONS in [mm]:

Ø80 x Ø21 x height

DIEPOTHAN® 80° Shore A yellow



Force in [kN]



DIMENSIONS in [mm]:

Ø80 x Ø21 x height

DIEPOTHAN® 90° Shore A red



To the load overview



## DESIGN RECOMMENDATION:

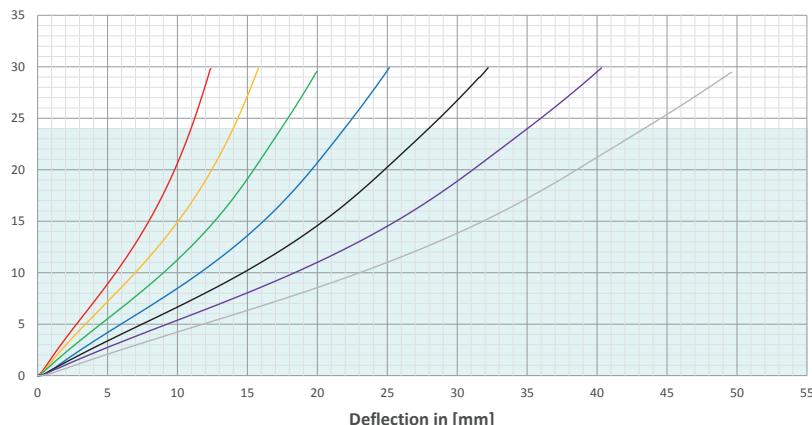
- Static compression up to a maximum of 10% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic deflection within the specified ranges (35% at 70° + 80° Shore A / 25% at 90° Shore A). Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING COMPACT STANDARD PROGRAM

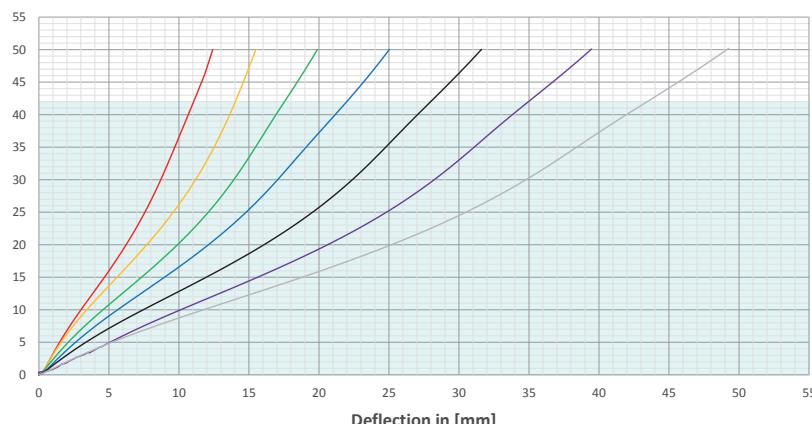
Nominal size Ø100 x Ø21 – DIEPOTHAN®



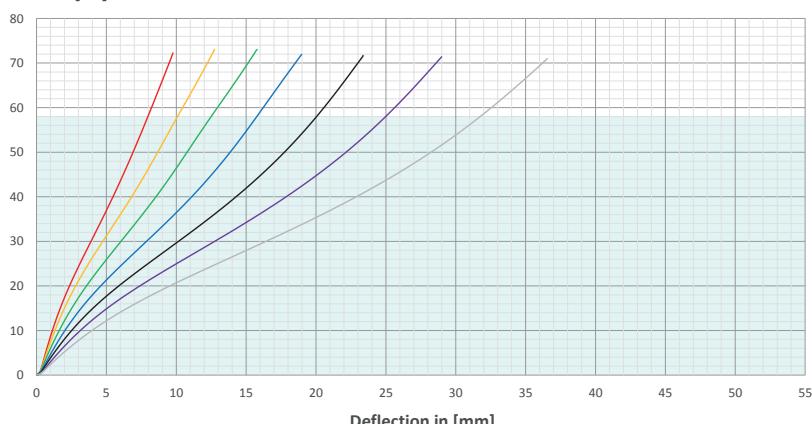
Force in [kN]



Force in [kN]



Force in [kN]



DIMENSIONS in [mm]:

Ø100 x Ø21 x height

DIEPOTHAN® 70° Shore A black



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |
|----------------|-------------------------------|------------|----------|
|                | Deflection [%]                | Force [kN] |          |
| 32             | 35                            | 11.20      | 24       |
| 40             | 35                            | 14.00      | 24       |
| 50             | 35                            | 17.50      | 24       |
| 63             | 35                            | 22.05      | 24       |
| 80             | 35                            | 28.00      | 24       |
| 100            | 35                            | 35.00      | 24       |
| 125            | 35                            | 43.75      | 24       |

DIMENSIONS in [mm]:

Ø100 x Ø21 x height

DIEPOTHAN® 80° Shore A yellow



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |
|----------------|-------------------------------|------------|----------|
|                | Deflection [%]                | Force [kN] |          |
| 32             | 35                            | 11.20      | 42       |
| 40             | 35                            | 14.00      | 42       |
| 50             | 35                            | 17.50      | 42       |
| 63             | 35                            | 22.05      | 42       |
| 80             | 35                            | 28.00      | 42       |
| 100            | 35                            | 35.00      | 42       |
| 125            | 35                            | 43.75      | 42       |

DIMENSIONS in [mm]:

Ø100 x Ø21 x height

DIEPOTHAN® 90° Shore A red



| HEIGHT<br>[mm] | MAXIMUM DYNAMIC LOAD CAPACITY |            | ITEM NO. |
|----------------|-------------------------------|------------|----------|
|                | Deflection [%]                | Force [kN] |          |
| 32             | 25                            | 8.00       | 58       |
| 40             | 25                            | 10.00      | 58       |
| 50             | 25                            | 12.50      | 58       |
| 63             | 25                            | 15.75      | 58       |
| 80             | 25                            | 20.00      | 58       |
| 100            | 25                            | 25.00      | 58       |
| 125            | 25                            | 31.25      | 58       |

To the load overview



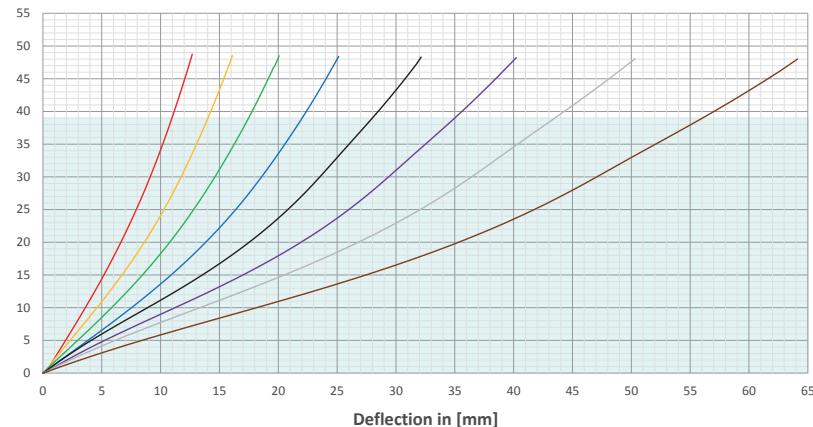
## DESIGN RECOMMENDATION:

- Static compression up to a maximum of 10% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic deflection within the specified ranges (35% at 70° + 80° Shore A / 25% at 90° Shore A). Higher dynamic loads are feasible but may reduce the lifespan.

# ELASTOMERIC SPRING COMPACT STANDARD PROGRAM

Nominal size Ø125 x Ø27 – DIEPOTHAN®

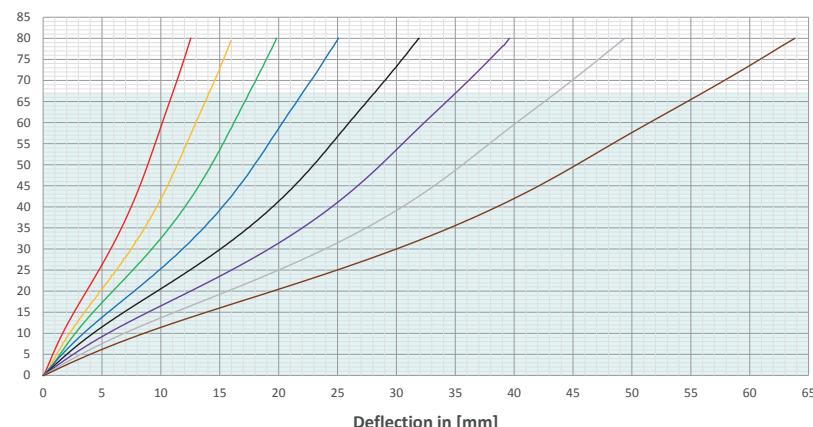
Force in [kN]



DIMENSIONS in [mm]:  
Ø125 x Ø27 x height  
DIEPOTHAN® 70° Shore A black



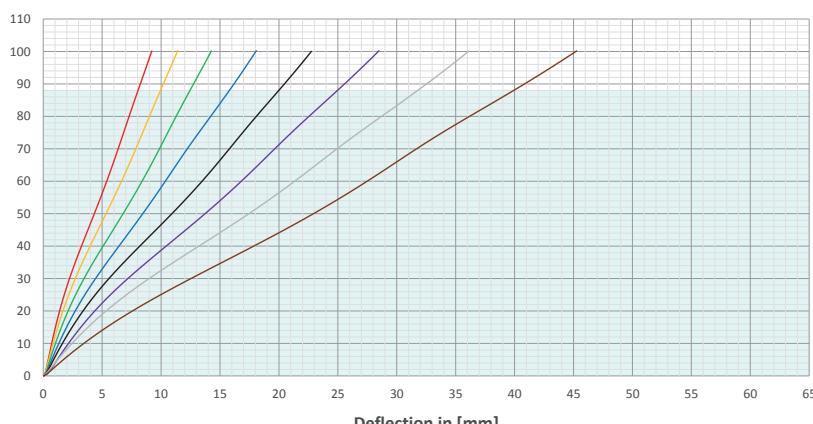
Force in [kN]



DIMENSIONS in [mm]:  
Ø125 x Ø27 x height  
DIEPOTHAN® 80° Shore A yellow



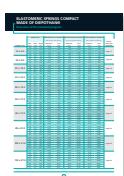
Force in [kN]



DIMENSIONS in [mm]:  
Ø125 x Ø27 x height  
DIEPOTHAN® 90° Shore A red



To the load overview



## DESIGN RECOMMENDATION:

- Static compression up to a maximum of 10% of the respective nominal height, as higher static loads may lead to permanent deformation (setting behavior).
- Dynamic deflection within the specified ranges (35% at 70° + 80° Shore A / 25% at 90° Shore A). Higher dynamic loads are feasible but may reduce the lifespan.

# SPRING ELEMENTS AND CUSTOMIZED SOLUTIONS CELLULAR AND COMPACT



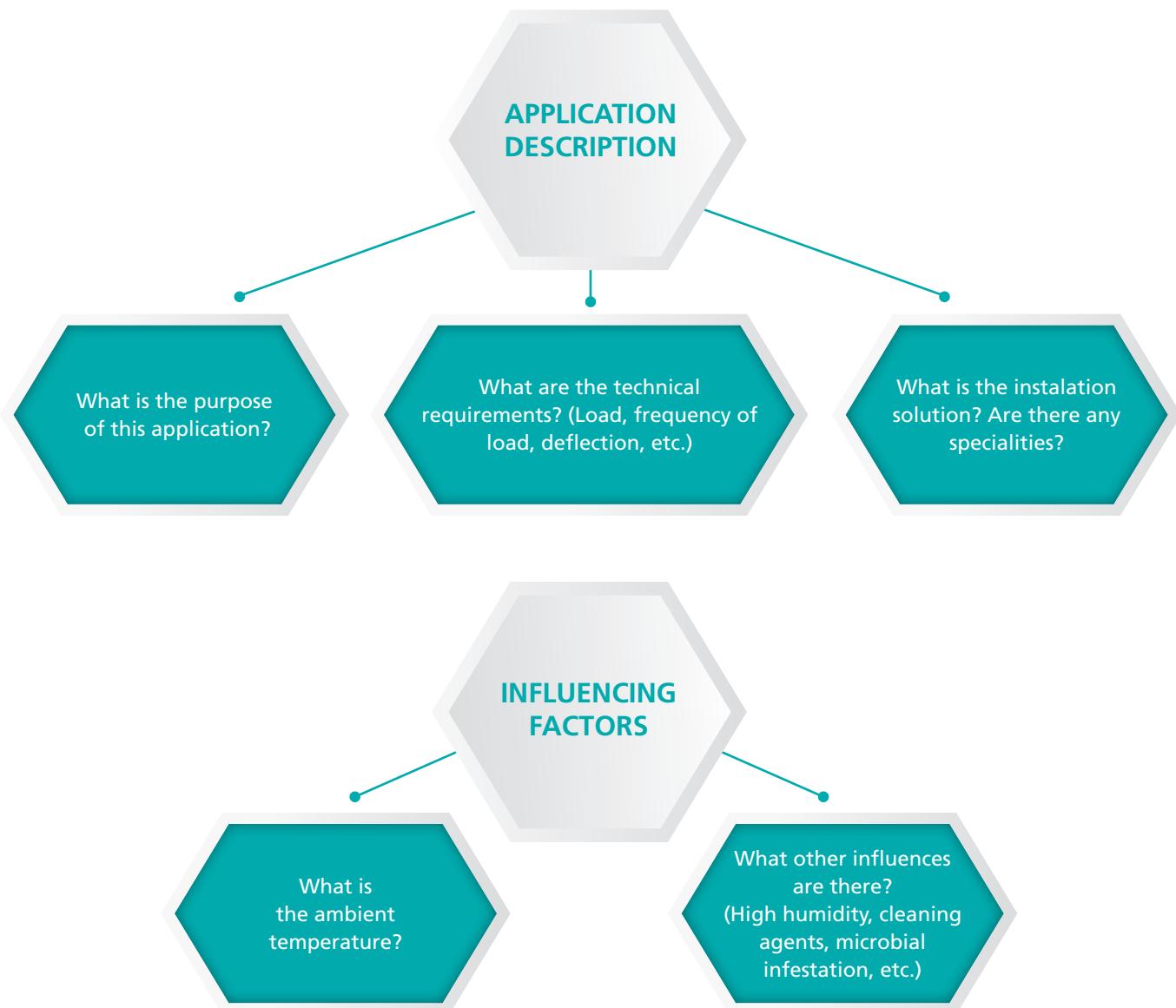
## Customized Solutions / design principles

### BASIC DESCRIPTION:

P+S elastomeric springs are suitable for a wide range of applications and have an excellent load profile. These have been in use for many years in many different industries worldwide. Our standard program comprises a broad selection of sizes and hardnesses that are designed for different loads and can already accommodate many applications. Nevertheless, we do understand that not all problems can be solved with a standard component. Which is why we would be happy to provide you with support for specific solutions. Our project department is on hand to work with you to create designs, develop

component constructions and assess environmental influences. Our many years of experience and specialised expertise enable us to assist and support you from design and toolmaking through to the creation of samples with precise approval processes. We pride ourselves in providing not only high-quality products, but also a comprehensive service. Please do not hesitate to contact us to discuss your individual requirements. We would be delighted to assist you with our expertise and work with you to find the best solution for your application.

### INFORMATION REQUIRED FOR DESIGN:



# P+S

## POLYURETHAN-ELASTOMERE GMBH & CO. KG

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