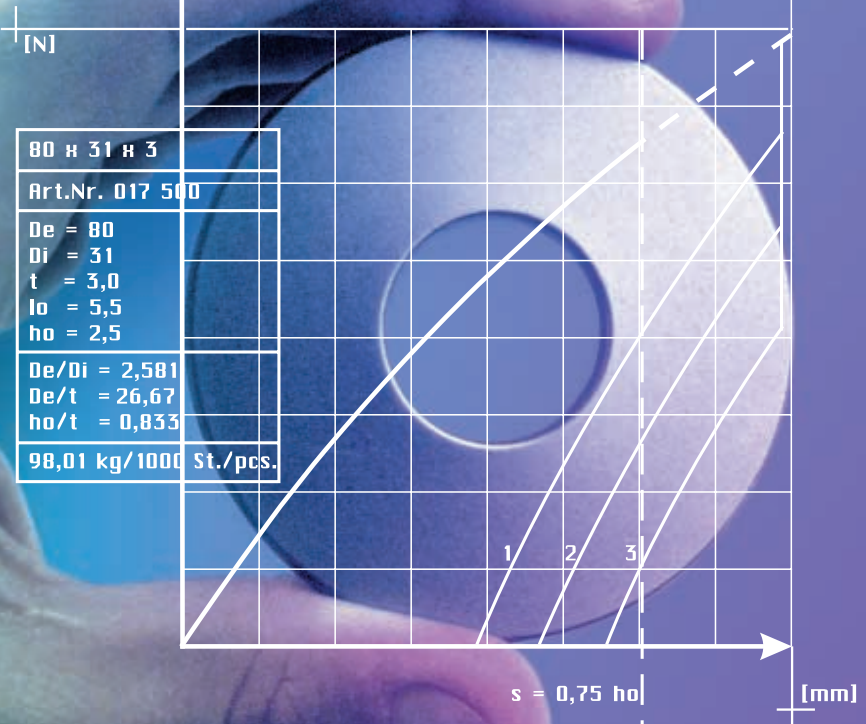


# Diagramme Graphs Diagrammes



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Bearbeitet von Dipl.-Ing. (FH) Eberhard Fromm und Ing. (grad.) Wolfgang Kleiner.

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Art.-Nr. 901 730 / 7.97

Produktion: Hela Werbung, Heilbronn

## Erläuterungen zu den Federdiagrammen

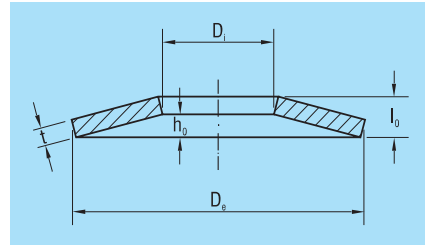
Auf den folgenden Seiten sind die Federkennlinien sämtlicher Tellerfedern nach DIN 2093 und unserer Werksnorm aus üblichem Federstahl aufgeführt. Ausgenommen sind lediglich die Reihen „K“ und „Z“.

Diagramme für Federabmessungen, die nicht in dieser Sammlung enthalten sind und für Federn aus Sonderwerkstoffen stellt Ihnen unser Technischer Verkauf auf Anforderung gern zur Verfügung.

### Angaben zur Tellerfeder

Neben dem Diagramm sind die Bestellmaße und die Fertigungsgruppe angegeben, bei DIN-Federn auch die Normbezeichnung. Außerdem ist die SCHNORR-Artikelnummer angegeben, die für die normale Ausführung aus Federstahl mit phosphatierter Oberfläche gilt.

Neben den maßgebenden Kennwerten ist

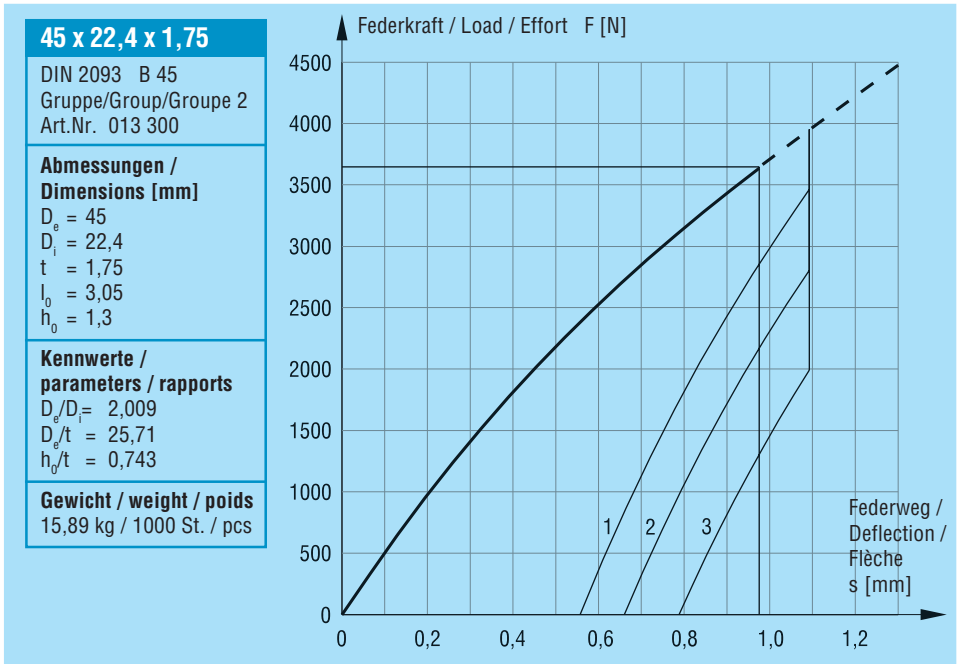


Tellerfederquerschnitt mit Hauptmaßen

schließlich noch das Gewicht je 1000 Stück aufgeführt.

### Die Diagramme

Im Diagramm zeigt die dick ausgezogene Linie die Federkraft  $F$  in N bei dem zugehörigen Federweg  $s$  in mm. Ab  $s = 0,75 h_0$  ist diese Linie gestrichelt, um anzudeuten, daß ab diesem Punkt die tatsächliche Kennlinie



zunehmend von der errechneten abweicht, weil die Federkraft durch Abwälzen der Tellerfedern aufeinander bzw. auf der Unterlage stark progressiv ansteigt (siehe SCHNORR®-Handbuch Abschnitt 1.7).

Die mit 1 bezeichnete sogenannte Dauerfestigkeitslinie stellt die Grenze des dauerfesten Arbeitsbereiches dar. Liegt der konstruierte Hilfspunkt (siehe Ablesebeispiel) oberhalb dieser Linie, dann kann mit einer Lebensdauer  $N$  von 2.000.000 Lastwechseln gerechnet werden, wobei die in Abschnitt 2.2 des SCHNORR®-Handbuches genannten Einschränkungen zu beachten sind. Dies gilt ebenso für die Zeitfestigkeitslinien 2 und 3, die die einer Lebensdauer von 500.000 bzw. 100.000 Lastwechseln entsprechenden Arbeitsbereiche begrenzen. Sie beruhen auf den Dauer- und Zeitfestigkeitsschaubildern nach DIN 2093 (für Gruppe 1 und 2) bzw. nach SCHNORR®-Handbuch, Abschnitt 2.2 (Gruppe 3) und gelten für Einzeltellerfedern und Federsäulen mit bis zu 10 wechselsinnig

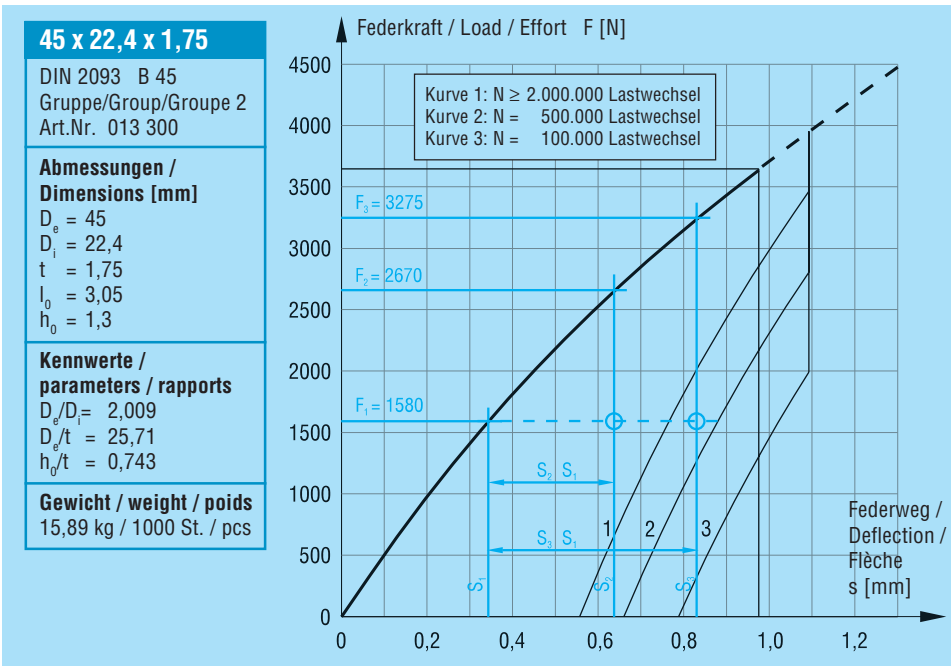
aneinandergereihten Einzelfedern, die bei Raumtemperatur unter normalen Bedingungen arbeiten.

**Ablesebeispiel**

Die Tellerfeder 45 x 22,4 x 1,75 mm (DIN 2093 B45) arbeitet zwischen einer Vorspannkraft  $F_1 = 1580$  N und einer Endkraft  $F_2 = 2670$  N. Liegt der Schnittpunkt einer Waagrechten durch  $F_1$  und einer Senkrechten durch  $F_2$  auf oder über der Linie 1 (2.000.000 LW), ist die Feder dauerfest. Aus dem Diagramm geht hervor, daß dies mit Sicherheit der Fall ist.

Würde die Feder jedoch zwischen  $F_1 = 1580$  N und  $F_3 = 3275$  N arbeiten, dann läge der Schnittpunkt zwischen der Linie 1 und der Linie 2. Demnach wäre eine Lebensdauer zwischen 500.000 und 2.000.000 Lastwechseln zu erwarten.

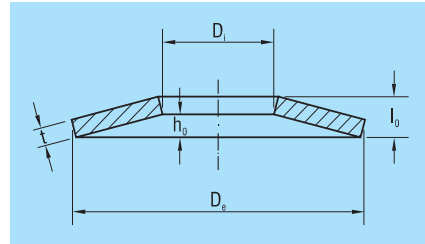
Ablesebeispiel



## Explanation of the spring diagrams

On the following pages the spring characteristics for the complete range of springs to DIN 2093 and our works standard made from standard spring steel are listed. Only the “K” and “Z” ranges are omitted.

Diagrams for springs with special dimensions or made from special materials can be easily provided upon request to our Technical Office.



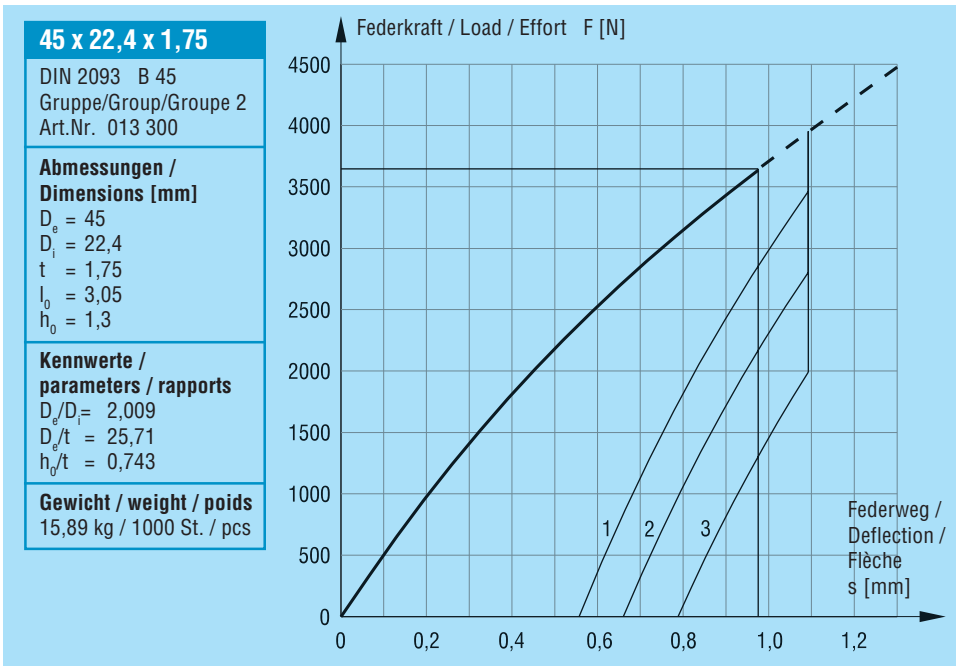
Schematic representation with the principal dimensions

### Specification of Disc Spring

The dimensions for ordering are pointed out next to the diagram and for springs to DIN 2093 the standard reference also. The manufacturing group for all springs is given as well. Additionally the SCHNORR article number for standard execution with phosphate surface is quoted. Finally, below the basic spring parameters the weight per 1000 pieces is given.

### The graphs

In the diagrams the bold unbroken line shows the spring load “F” in N for the corresponding deflection “s” in mm. From  $s = 0.75 h_0$  this line is dotted, this denotes that from this point the actual spring load progressively increases from the calculated value. This effect is caused by the rolling of the spring



edges on the abutments or adjacent spring (see SCHNORR® Handbook, section 1.7).

The line designated 1 is the limit of the fatigue free working range. If a constructed point (see Reading Example) is above this line then one can estimate a fatigue life  $N$  of 2,000,000 cycles in which case the conditions stated in section 2.2 of the SCHNORR® Handbook should be taken into consideration. This also applies to the fatigue lines 2 and 3 which limit the fatigue life to 500,000 and 100,000 cycles respectively. These are based on the fatigue life diagrams in DIN 2093 (for springs in groups 1 and 2) or in accordance with the SCHNORR® Handbook, section 2.2 (for group 3 springs). These predictions apply to single springs or for stacks of up to 10 in single series at room temperature under normal conditions.

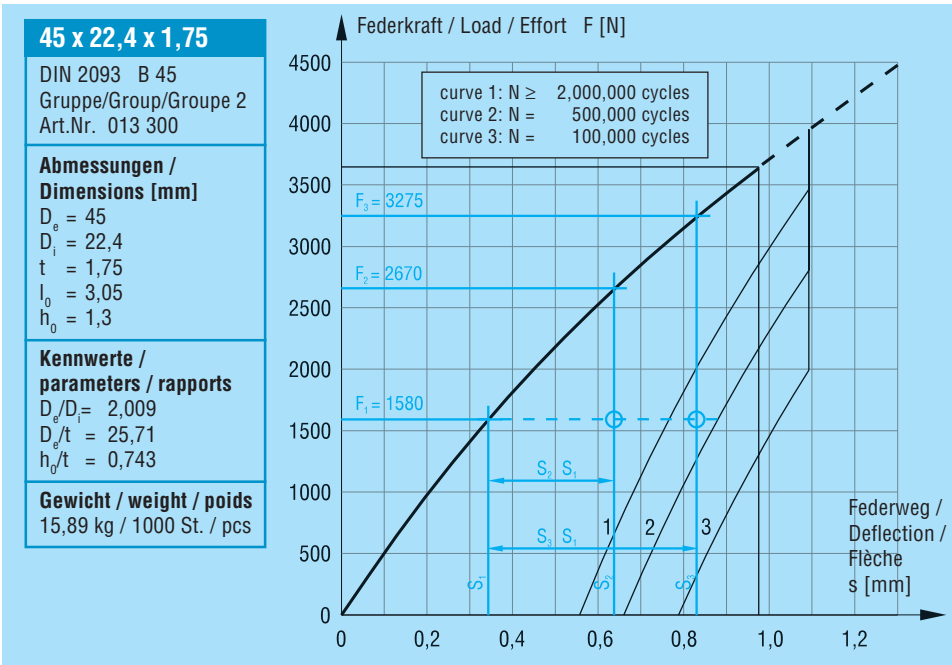
$F_1 = 1580$  N and a final load  $F_2 = 2670$  N. If the point of intersection of a horizontal line through  $F_1$  and of a vertical line through  $F_2$  lies on or above line 1 (2,000,000 cycles), then the spring is considered fatigue resistant. From the diagram it can be seen this is clearly the case.

However if the spring is to work between  $F_1 = 1580$  N and  $F_3 = 3275$  N then the point of intersection will lie between line 1 and line 2 ( $N = 500,000$  cycles). According to this one can then expect a fatigue life of between 500,000 and 2,000,000 cycles.

**Reading Example**

The disc spring 45 x 22,4 x 1,75 (DIN 2093 B 45) is operated between an initial load of

Reading Example



## Diagrammes des rondelles ressort

Sur les prochaines pages nous vous indiquons les courbes de toutes nos rondelles en acier à ressort (excepté les rondelles «K» et «Z») selon la Norme DIN 2093 et notre Norme SCHNORR.

Notre département technique reste à votre disposition pour vous fournir sur demande tous diagrammes supplémentaires notamment pour les rondelles en matières spéciales.

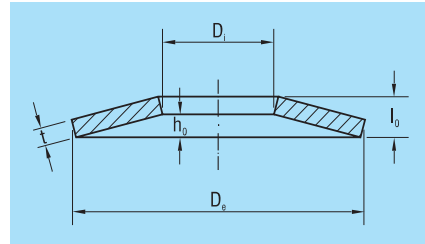


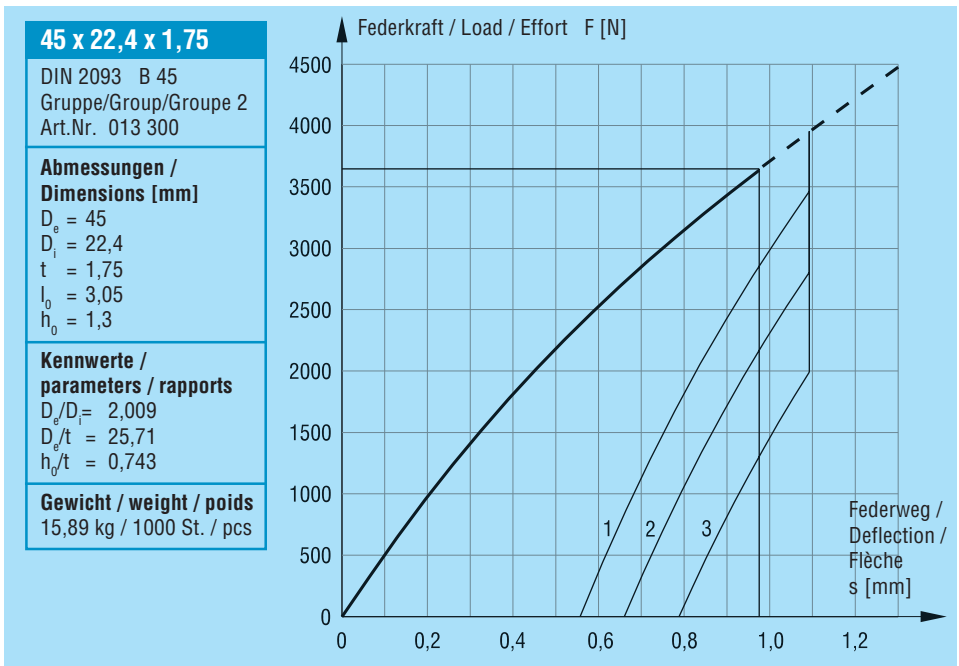
Schéma de la rondelle avec les dimensions principales

### Spécifications de la rondelle

Près du diagramme se trouvent les principales dimensions et le groupe de fabrication, éventuellement la Norme DIN et le numéro d'article SCHNORR qui indique l'exécution standard en acier à ressort avec surface phosphatée. En plus de ces valeurs indicatives vous trouverez également le poids par 1000 pièces.

### Les diagrammes

La courbe en gras indique l'effort «F» en N selon la flèche «s» en mm. A partir de  $s = 0,75 h_0$ , cette ligne est en pointillé car après cette valeur la courbe réelle s'éloigne de la courbe théorique, l'effort augmentant rapidement en fin de course des rondelles (voir aide mémoire SCHNORR®, paragraphe 1.7).



La courbe N° 1 correspond à la caractéristique de durée de vie. Si un point auxiliaire tracé (voir Exemple de lecture) est au dessus de cette courbe on peut compter sur une durée de vie N de 2.000.000 alternances (voir aide mémoire SCHNORR®, paragraphe 2.2). Idem pour courbe 2 et 3 qui montrent respectivement une durée de vie de 500.000 et 100.000 alternances. Elles proviennent des diagrammes de vie selon DIN 2093 (pour les groupes 1 et 2) respectivement selon l'aide mémoire SCHNORR®, paragraphe 2.2 (groupe 3). Les valeurs sont valables pour des rondelles individuelles et aussi empilées jusqu'à 10 rondelles opposées, travaillant dans des conditions et une température normales. L'interprétation des courbes est expliquée dans l'exemple ci-après.

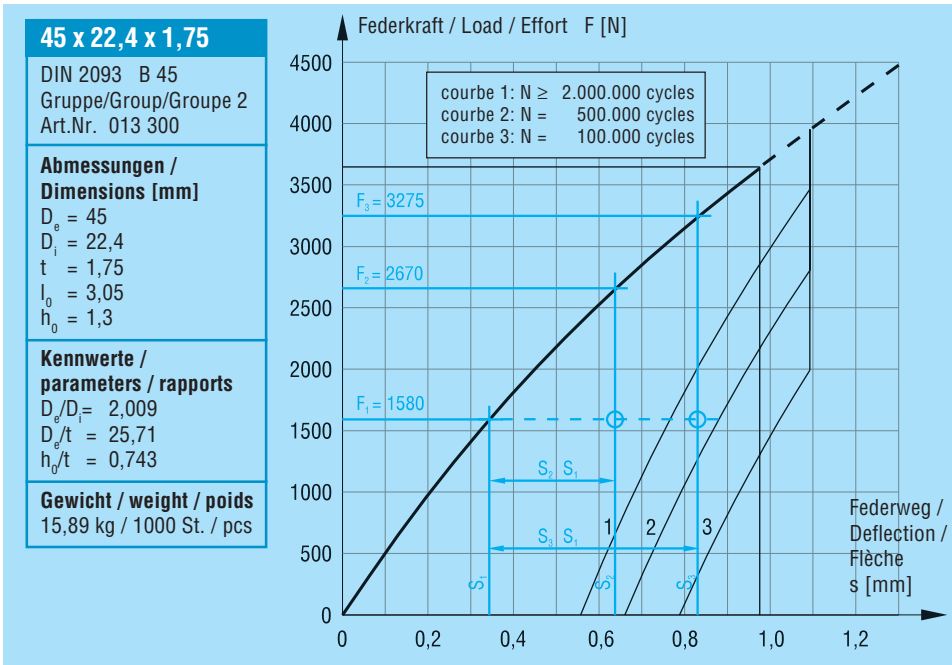
et une charge finale  $F_2 = 2670$  N. Si le point d'intersection entre une droite horizontale menée de  $F_1$  et une droite verticale menée de  $F_2$  est situé à gauche de la courbe 1 (2.000.000 alternances), la durée de vie de la rondelle sera importante. En effet, comme on peut le voir sur le diagramme, cette rondelle travaillera dans une zone résistante de fatigue.

Si par contre la charge était entre  $F_1 = 1580$  N et  $F_3 = 3275$  N la durée de vie serait alors située entre 500.000 et 2.000.000 alternances.

**Exemple de lecture**

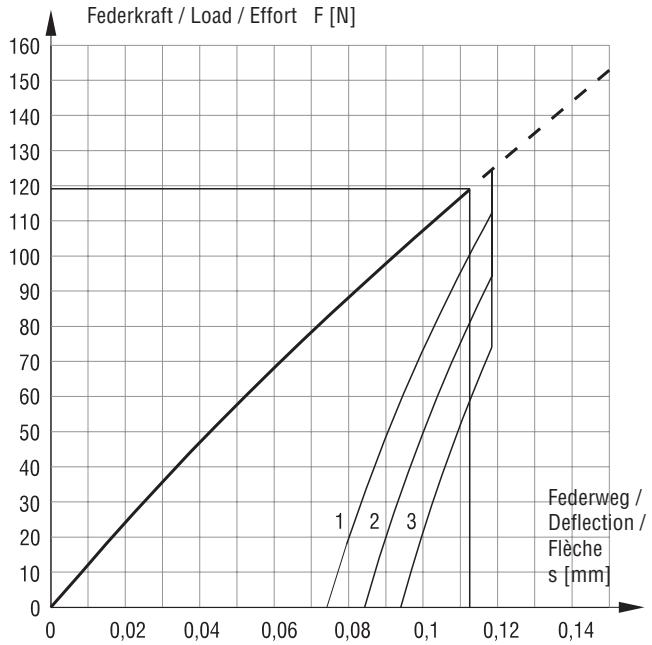
La rondelle 45 x 22,4 x 1,75 (DIN 2093 B 45) travaille entre une précharge de  $F_1 = 1580$  N

Exemple de lecture

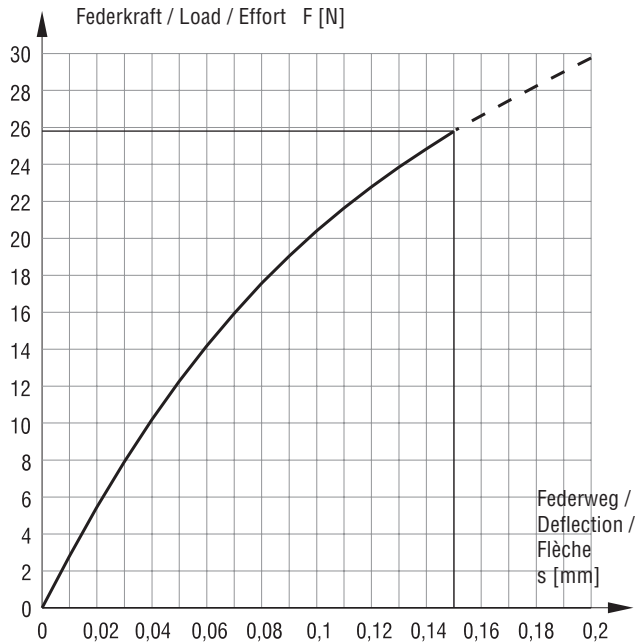




<b>6 x 3,2 x 0,3</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 000 100
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 6 D <sub>i</sub> = 3,2 t = 0,3 l <sub>0</sub> = 0,45 h <sub>0</sub> = 0,15
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,875 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,500
<b>Gewicht / weight / poids</b> 0,044 kg / 1000 St. / pcs



<b>8 x 3,2 x 0,2</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 000 200
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 8 D <sub>i</sub> = 3,2 t = 0,2 l <sub>0</sub> = 0,4 h <sub>0</sub> = 0,2
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,500 D <sub>e</sub> /t = 40 h <sub>0</sub> /t = 1,000
<b>Gewicht / weight / poids</b> 0,064 kg / 1000 St. / pcs



**8 x 3,2 x 0,3**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 000 300

**Abmessungen /  
 Dimensions [mm]**

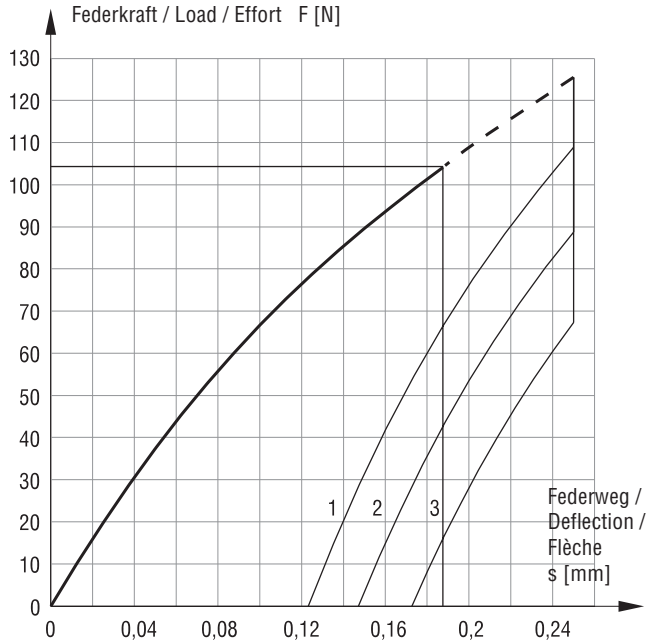
$D_e = 8$   
 $D_i = 3,2$   
 $t = 0,3$   
 $l_0 = 0,55$   
 $h_0 = 0,25$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,500$   
 $D_e/t = 26,67$   
 $h_0/t = 0,833$

**Gewicht / weight / poids**

0,093 kg / 1000 St. / pcs



**8 x 3,2 x 0,4**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 000 400

**Abmessungen /  
 Dimensions [mm]**

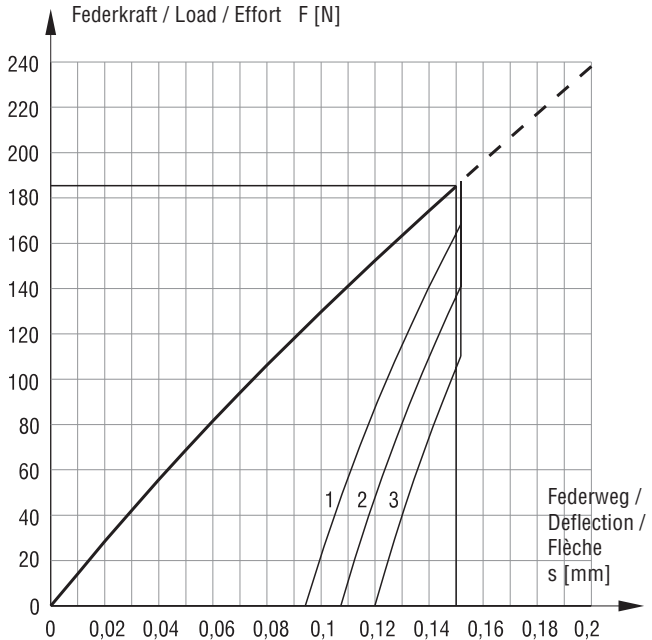
$D_e = 8$   
 $D_i = 3,2$   
 $t = 0,4$   
 $l_0 = 0,6$   
 $h_0 = 0,2$

**TF-Kennwerte /  
 parameters / rapports**

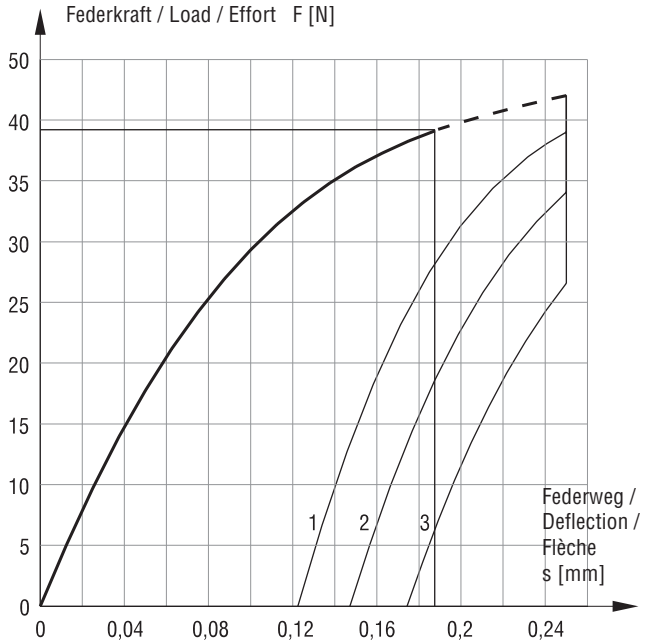
$D_e/D_i = 2,500$   
 $D_e/t = 20$   
 $h_0/t = 0,500$

**Gewicht / weight / poids**

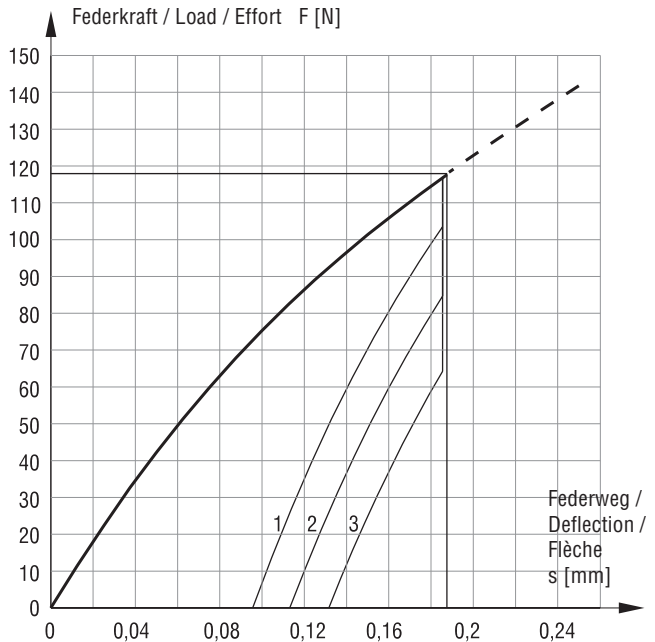
0,126 kg / 1000 St. / pcs



<b>8 x 4,2 x 0,2</b>
DIN 2093 - C8 Gruppe/Group/Groupe 1 Art.Nr. 000 550
<b>Abmessungen / Dimensions [mm]</b> $D_e = 8$ $D_i = 4,2$ $t = 0,2$ $l_0 = 0,45$ $h_0 = 0,25$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,905$ $D_e/t = 40$ $h_0/t = 1,250$
<b>Gewicht / weight / poids</b> 0,055 kg / 1000 St. / pcs



<b>8 x 4,2 x 0,3</b>
DIN 2093 - B 8 Gruppe/Group/Groupe 1 Art.Nr. 000 600
<b>Abmessungen / Dimensions [mm]</b> $D_e = 8$ $D_i = 4,2$ $t = 0,3$ $l_0 = 0,55$ $h_0 = 0,25$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,905$ $D_e/t = 26,67$ $h_0/t = 0,833$
<b>Gewicht / weight / poids</b> 0,080 kg / 1000 St. / pcs



**8 x 4,2 x 0,4**

DIN 2093 - A 8  
 Gruppe/Group/Groupe 1  
 Art.Nr. 000 700

**Abmessungen /  
 Dimensions [mm]**

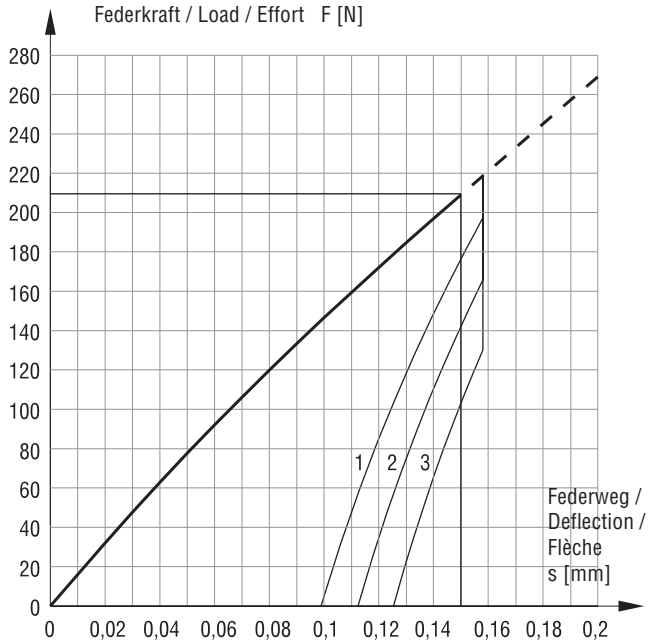
$D_e = 8$   
 $D_i = 4,2$   
 $t = 0,4$   
 $l_0 = 0,6$   
 $h_0 = 0,2$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,905$   
 $D_e/t = 20$   
 $h_0/t = 0,500$

**Gewicht / weight / poids**

0,107 kg / 1000 St. / pcs



**10 x 3,2 x 0,3**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 000 800

**Abmessungen /  
 Dimensions [mm]**

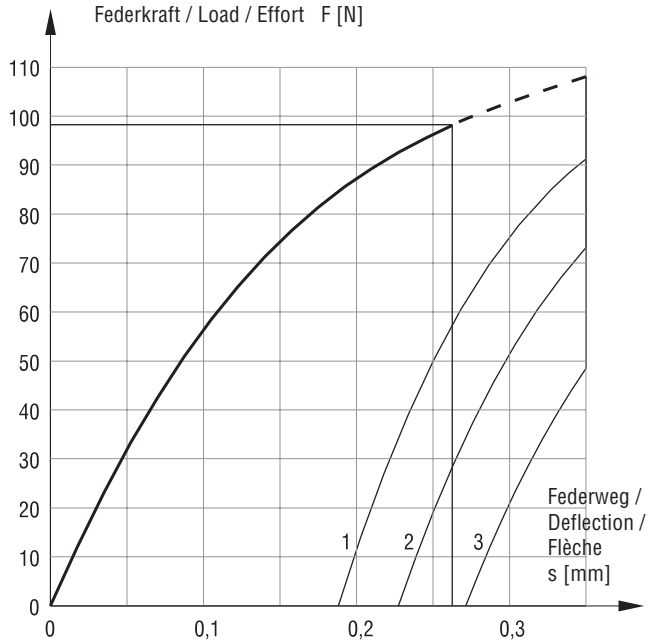
$D_e = 10$   
 $D_i = 3,2$   
 $t = 0,3$   
 $l_0 = 0,65$   
 $h_0 = 0,35$

**TF-Kennwerte /  
 parameters / rapports**

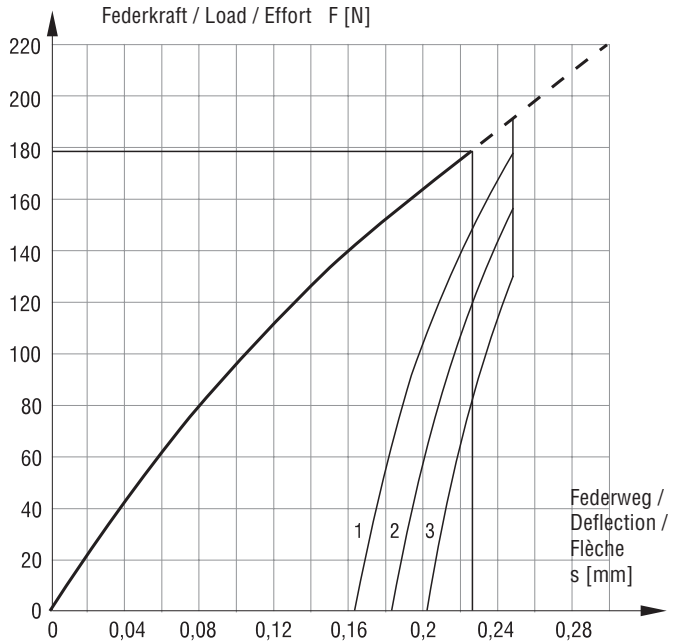
$D_e/D_i = 3,125$   
 $D_e/t = 33,33$   
 $h_0/t = 1,167$

**Gewicht / weight / poids**

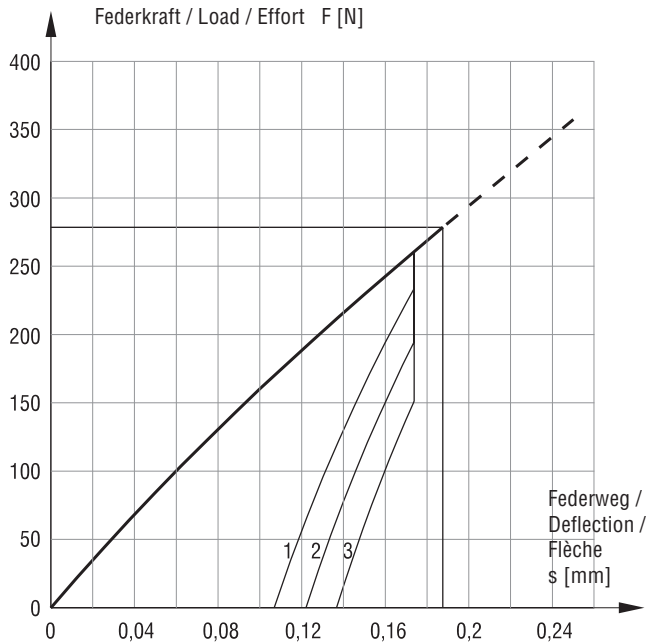
0,157 kg / 1000 St. / pcs



<b>10 x 3,2 x 0,4</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 000 900
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 10 D <sub>i</sub> = 3,2 t = 0,4 l <sub>0</sub> = 0,7 h <sub>0</sub> = 0,3
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 3,125 D <sub>e</sub> /t = 25 h <sub>0</sub> /t = 0,750
<b>Gewicht / weight / poids</b> 0,211 kg / 1000 St. / pcs



<b>10 x 3,2 x 0,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 001 000
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 10 D <sub>i</sub> = 3,2 t = 0,5 l <sub>0</sub> = 0,75 h <sub>0</sub> = 0,25
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 3,125 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,500
<b>Gewicht / weight / poids</b> 0,266 kg / 1000 St. / pcs



**10 x 4,2 x 0,4**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 001 100

**Abmessungen /  
 Dimensions [mm]**

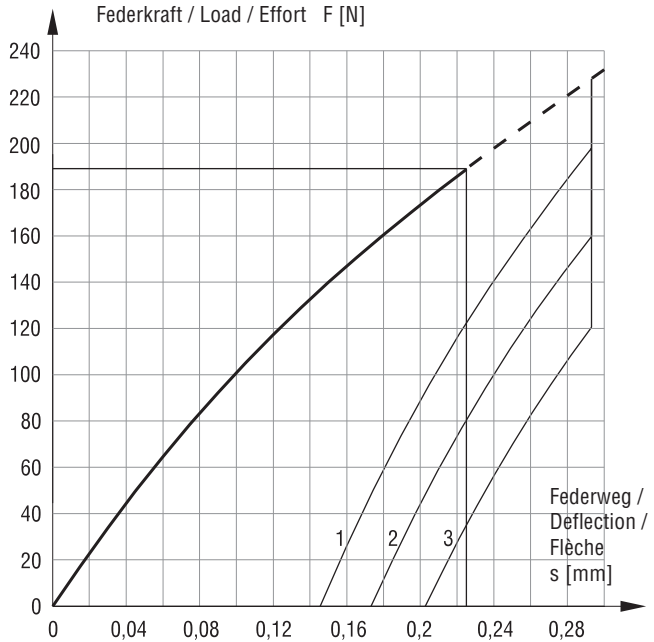
$D_e = 10$   
 $D_i = 4,2$   
 $t = 0,4$   
 $l_0 = 0,7$   
 $h_0 = 0,3$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,381$   
 $D_e/t = 25$   
 $h_0/t = 0,750$

**Gewicht / weight / poids**

0,193 kg / 1000 St. / pcs



**10 x 4,2 x 0,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 001 200

**Abmessungen /  
 Dimensions [mm]**

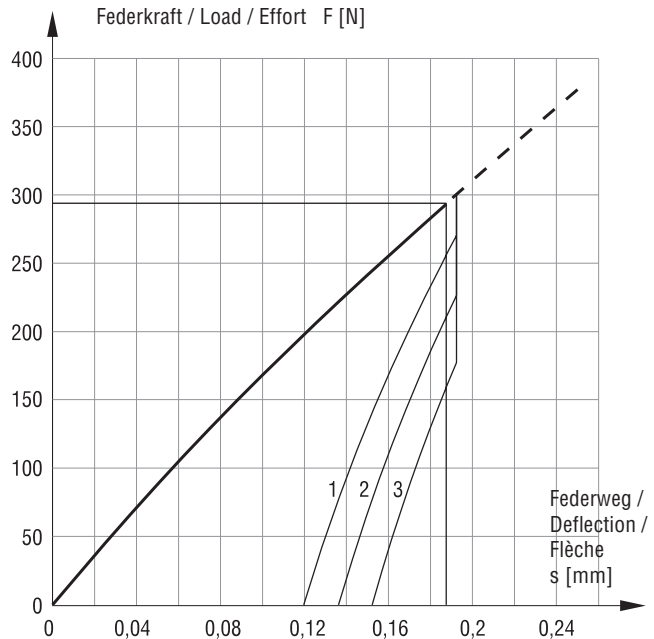
$D_e = 10$   
 $D_i = 4,2$   
 $t = 0,5$   
 $l_0 = 0,75$   
 $h_0 = 0,25$

**TF-Kennwerte /  
 parameters / rapports**

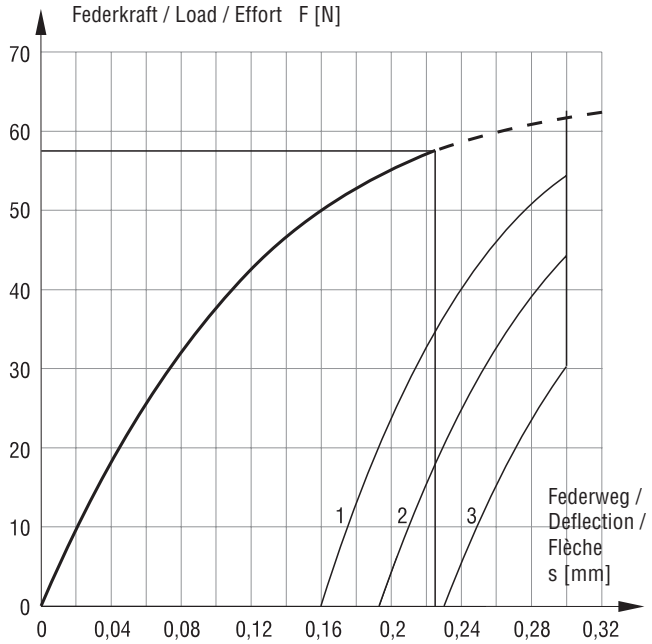
$D_e/D_i = 2,381$   
 $D_e/t = 20$   
 $h_0/t = 0,500$

**Gewicht / weight / poids**

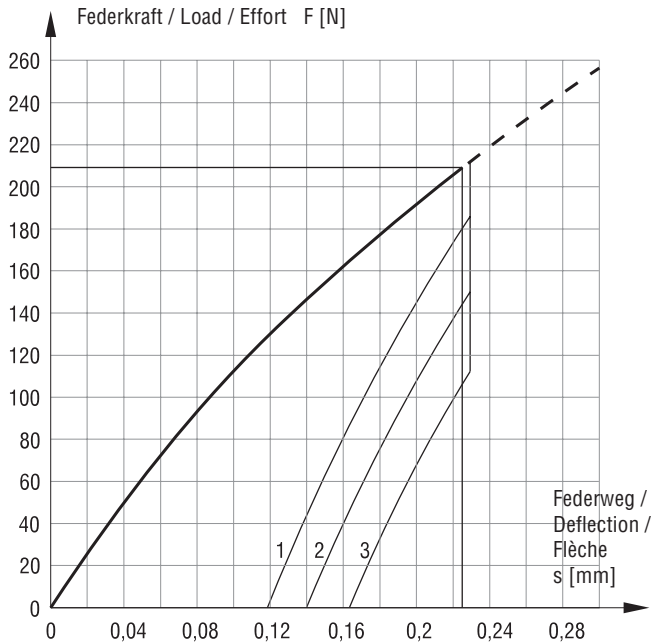
0,243 kg / 1000 St. / pcs



<b>10 x 5,2 x 0,25</b>
DIN 2093 - C 10 Gruppe/Group/Groupe 1 Art.Nr. 001 300
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 10 D <sub>i</sub> = 5,2 t = 0,25 l <sub>0</sub> = 0,55 h <sub>0</sub> = 0,3
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,923 D <sub>e</sub> /t = 40 h <sub>0</sub> /t = 1,200
<b>Gewicht / weight / poids</b> 0,109 kg / 1000 St. / pcs



<b>10 x 5,2 x 0,4</b>
DIN 2093 - B 10 Gruppe/Group/Groupe 1 Art.Nr. 001 400
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 10 D <sub>i</sub> = 5,2 t = 0,4 l <sub>0</sub> = 0,7 h <sub>0</sub> = 0,3
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,923 D <sub>e</sub> /t = 25 h <sub>0</sub> /t = 0,750
<b>Gewicht / weight / poids</b> 0,170 kg / 1000 St. / pcs



**10 x 5,2 x 0,5**

DIN 2093 - A 10  
 Gruppe/Group/Groupe 1  
 Art.Nr. 001 500

**Abmessungen /  
 Dimensions [mm]**

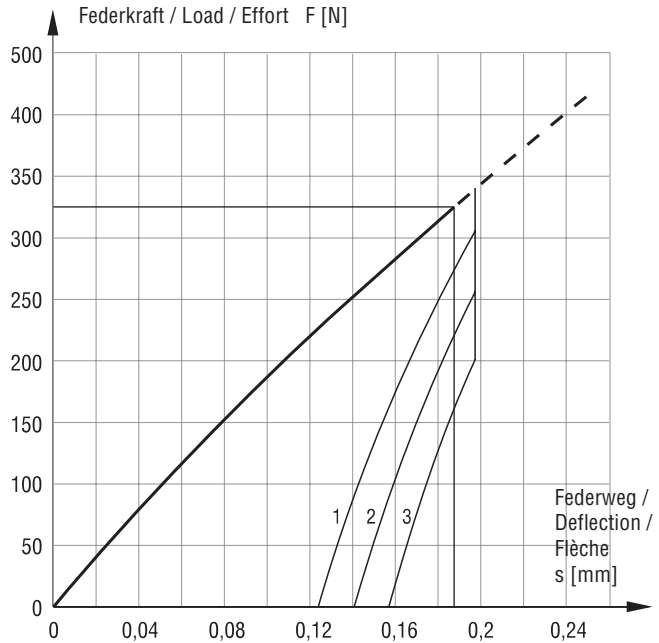
$D_e = 10$   
 $D_i = 5,2$   
 $t = 0,5$   
 $l_0 = 0,75$   
 $h_0 = 0,25$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,923$   
 $D_e/t = 20$   
 $h_0/t = 0,500$

**Gewicht / weight / poids**

0,214 kg / 1000 St. / pcs



**12 x 4,2 x 0,4**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 001 600

**Abmessungen /  
 Dimensions [mm]**

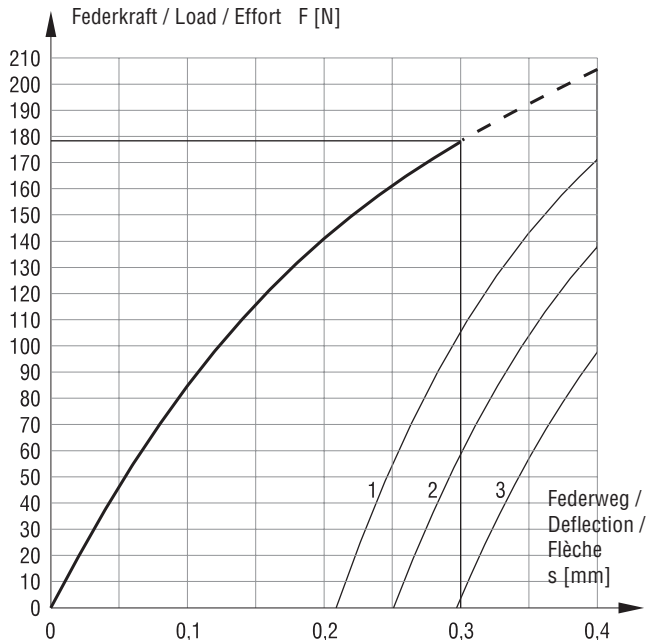
$D_e = 12$   
 $D_i = 4,2$   
 $t = 0,4$   
 $l_0 = 0,8$   
 $h_0 = 0,4$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,857$   
 $D_e/t = 30$   
 $h_0/t = 1,000$

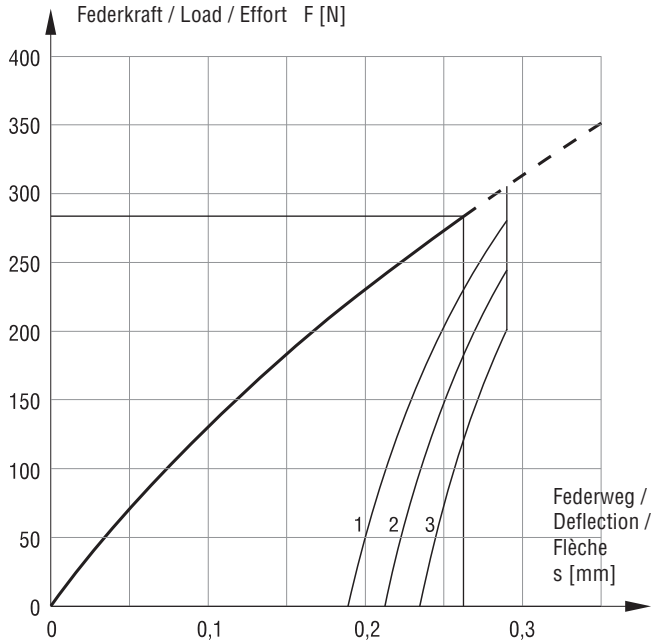
**Gewicht / weight / poids**

0,297 kg / 1000 St. / pcs

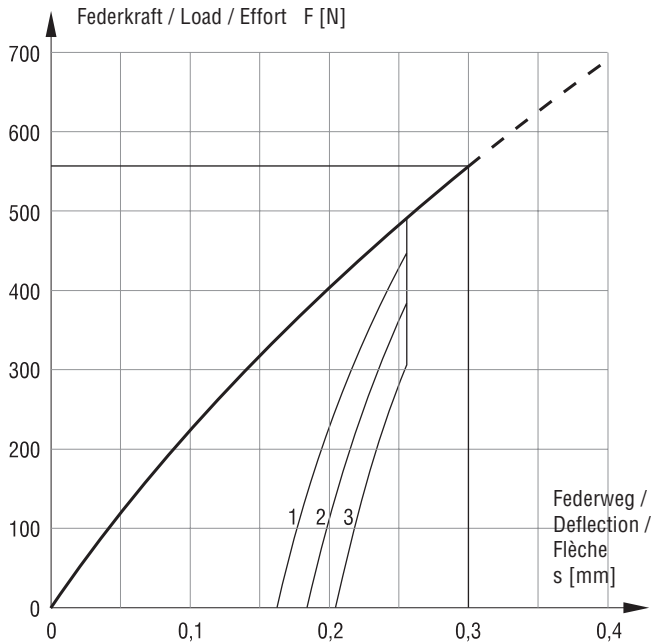




<b>12 x 4,2 x 0,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 001 700
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 12 D <sub>i</sub> = 4,2 t = 0,5 l <sub>0</sub> = 0,85 h <sub>0</sub> = 0,35
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,857 D <sub>e</sub> /t = 24 h <sub>0</sub> /t = 0,700
<b>Gewicht / weight / poids</b> 0,374 kg / 1000 St. / pcs



<b>12 x 4,2 x 0,6</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 001 800
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 12 D <sub>i</sub> = 4,2 t = 0,6 l <sub>0</sub> = 1,0 h <sub>0</sub> = 0,4
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,857 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,667
<b>Gewicht / weight / poids</b> 0,450 kg / 1000 St. / pcs



**12 x 5,2 x 0,5**

Schnorr Werksnorm  
Gruppe/Group/Groupe 1  
Art.Nr. 001 900

**Abmessungen /  
Dimensions [mm]**

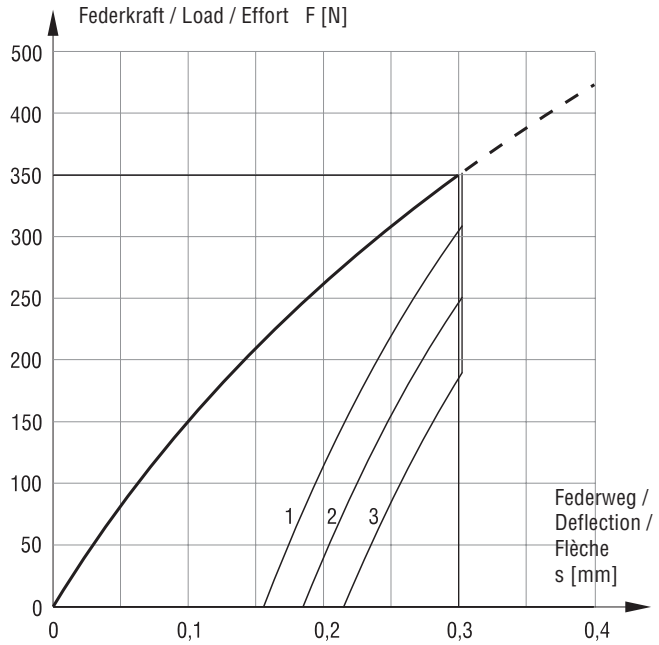
$D_e = 12$   
 $D_i = 5,2$   
 $t = 0,5$   
 $l_0 = 0,9$   
 $h_0 = 0,4$

**TF-Kennwerte /  
parameters / rapports**

$D_e/D_i = 2,308$   
 $D_e/t = 24$   
 $h_0/t = 0,800$

**Gewicht / weight / poids**

0,345 kg / 1000 St. / pcs



**12 x 5,2 x 0,6**

Schnorr Werksnorm  
Gruppe/Group/Groupe 1  
Art.Nr. 002 000

**Abmessungen /  
Dimensions [mm]**

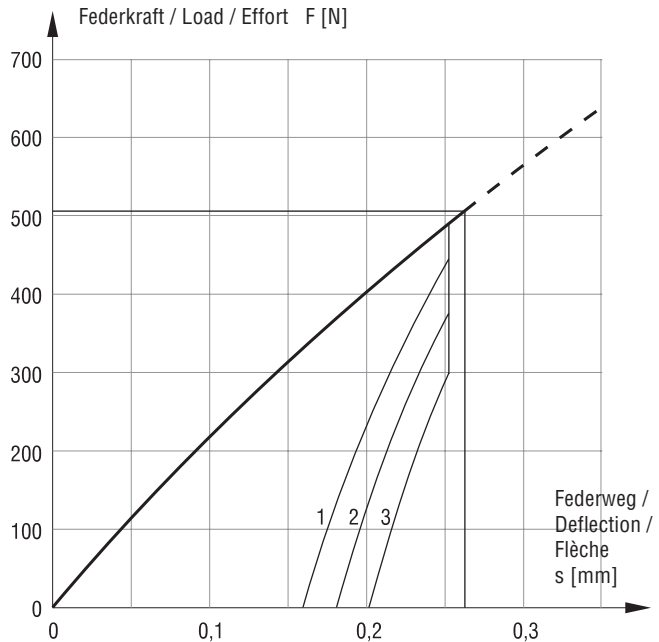
$D_e = 12$   
 $D_i = 5,2$   
 $t = 0,6$   
 $l_0 = 0,95$   
 $h_0 = 0,35$

**TF-Kennwerte /  
parameters / rapports**

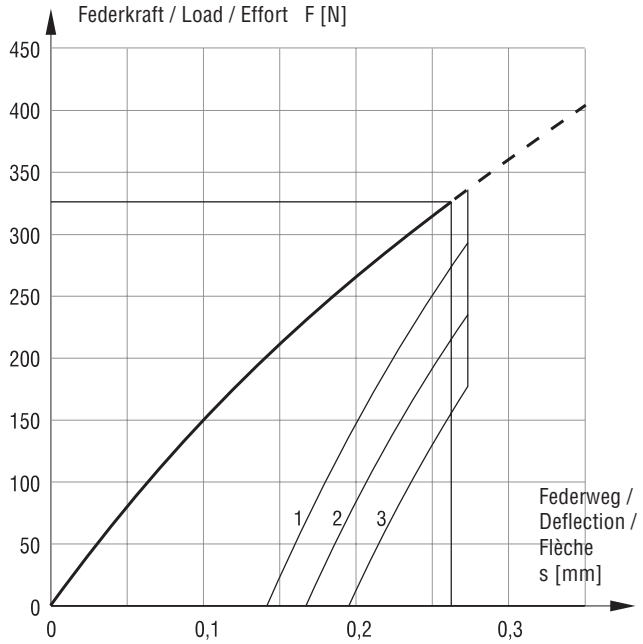
$D_e/D_i = 2,308$   
 $D_e/t = 20$   
 $h_0/t = 0,583$

**Gewicht / weight / poids**

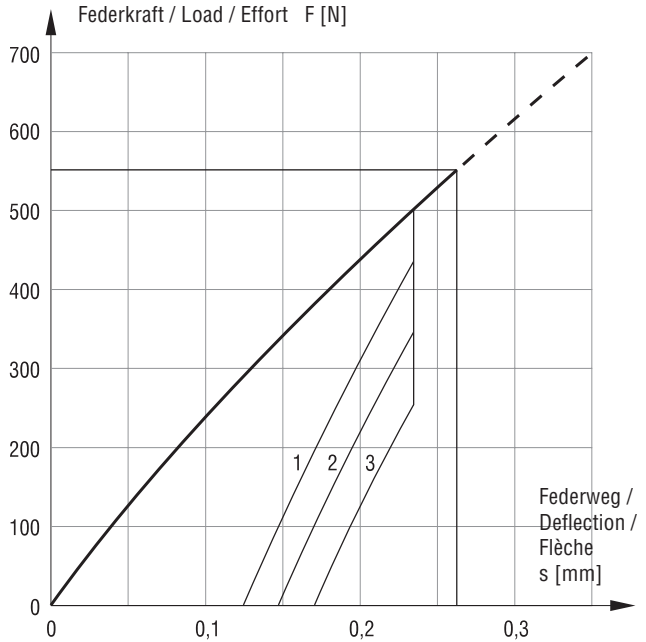
0,415 kg / 1000 St. / pcs



<b>12 x 6,2 x 0,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 002 100
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 12 D <sub>i</sub> = 6,2 t = 0,5 l <sub>0</sub> = 0,85 h <sub>0</sub> = 0,35
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,935 D <sub>e</sub> /t = 24 h <sub>0</sub> /t = 0,700
<b>Gewicht / weight / poids</b> 0,310 kg / 1000 St. / pcs



<b>12 x 6,2 x 0,6</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 002 200
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 12 D <sub>i</sub> = 6,2 t = 0,6 l <sub>0</sub> = 0,95 h <sub>0</sub> = 0,35
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,935 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,583
<b>Gewicht / weight / poids</b> 0,373 kg / 1000 St. / pcs



**12,5 x 5,2 x 0,5**

Schnorr Werksnorm  
Gruppe/Group/Groupe 1  
Art.Nr. 002 300

**Abmessungen /  
Dimensions [mm]**

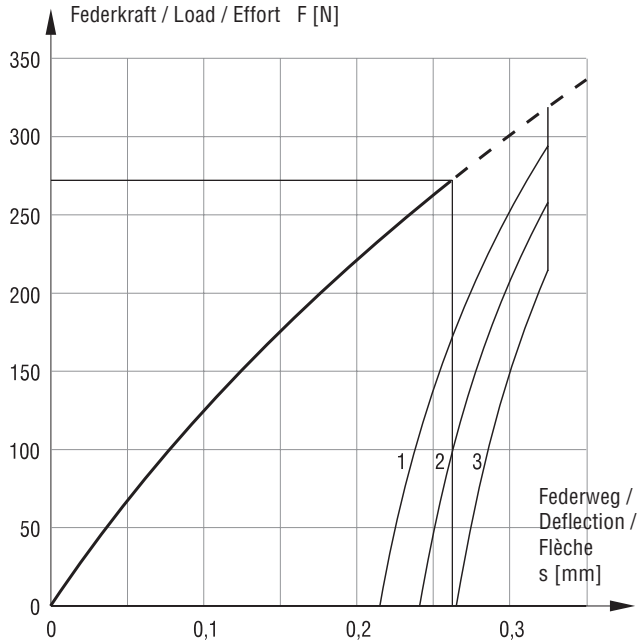
$D_e = 12,5$   
 $D_i = 5,2$   
 $t = 0,5$   
 $l_0 = 0,85$   
 $h_0 = 0,35$

**TF-Kennwerte /  
parameters / rapports**

$D_e/D_i = 2,404$   
 $D_e/t = 25$   
 $h_0/t = 0,700$

**Gewicht / weight / poids**

0,382 kg / 1000 St. / pcs



**12,5 x 6,2 x 0,35**

DIN 2093 - C 12,5  
Gruppe/Group/Groupe 1  
Art.Nr. 002 050

**Abmessungen /  
Dimensions [mm]**

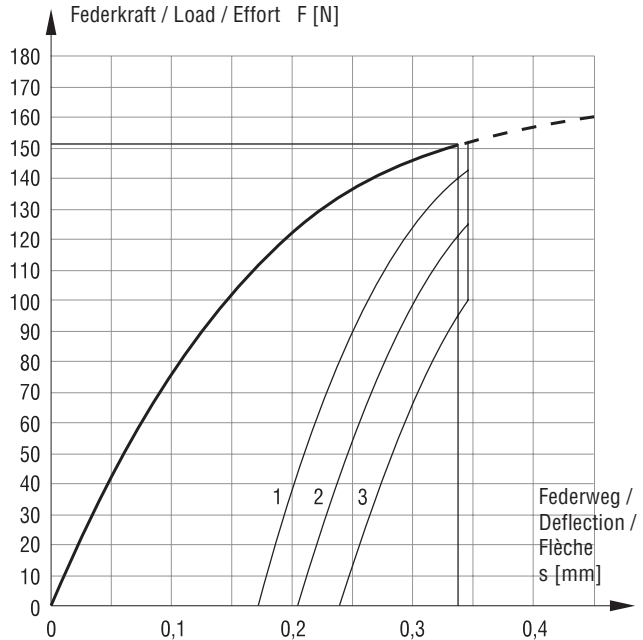
$D_e = 12,5$   
 $D_i = 6,2$   
 $t = 0,35$   
 $l_0 = 0,8$   
 $h_0 = 0,45$

**TF-Kennwerte /  
parameters / rapports**

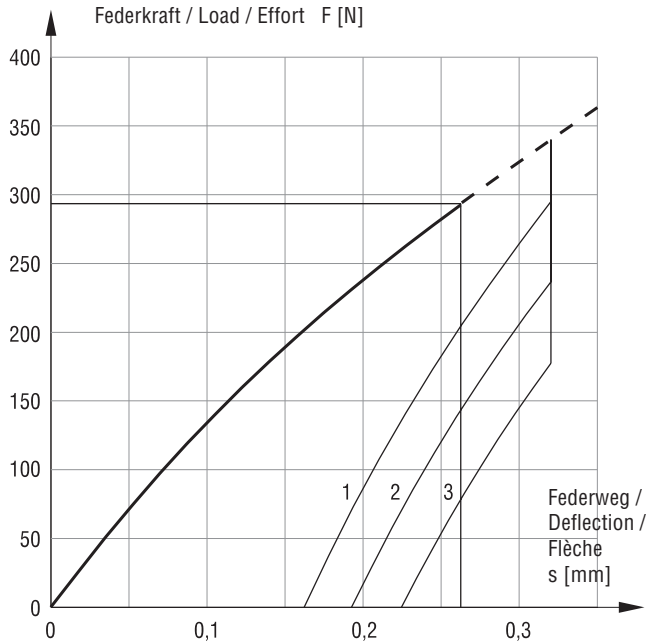
$D_e/D_i = 2,016$   
 $D_e/t = 35,71$   
 $h_0/t = 1,286$

**Gewicht / weight / poids**

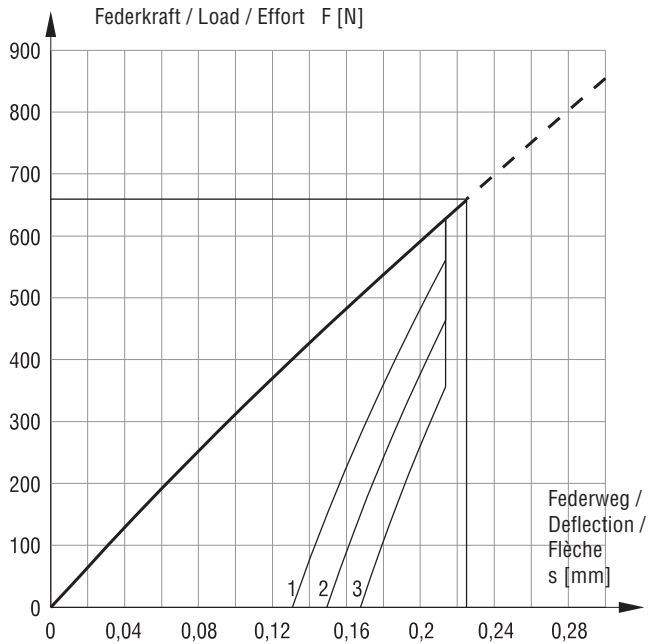
0,251 kg / 1000 St. / pcs



<b>12,5 x 6,2 x 0,5</b>
DIN 2093 - B 12,5 Gruppe/Group/Groupe 1 Art.Nr. 002 500
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 12,5 D <sub>i</sub> = 6,2 t = 0,5 l <sub>0</sub> = 0,85 h <sub>0</sub> = 0,35
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,016 D <sub>e</sub> /t = 25 h <sub>0</sub> /t = 0,700
<b>Gewicht / weight / poids</b> 0,346 kg / 1000 St. / pcs



<b>12,5 x 6,2 x 0,7</b>
DIN 2093 - A 12,5 Gruppe/Group/Groupe 1 Art.Nr. 002 700
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 12,5 D <sub>i</sub> = 6,2 t = 0,7 l <sub>0</sub> = 1,0 h <sub>0</sub> = 0,3
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,016 D <sub>e</sub> /t = 17,86 h <sub>0</sub> /t = 0,429
<b>Gewicht / weight / poids</b> 0,488 kg / 1000 St. / pcs



**14 x 7,2 x 0,35**

DIN 2093 - C 14  
 Gruppe/Group/Groupe 1  
 Art.Nr. 002 750

**Abmessungen /  
 Dimensions [mm]**

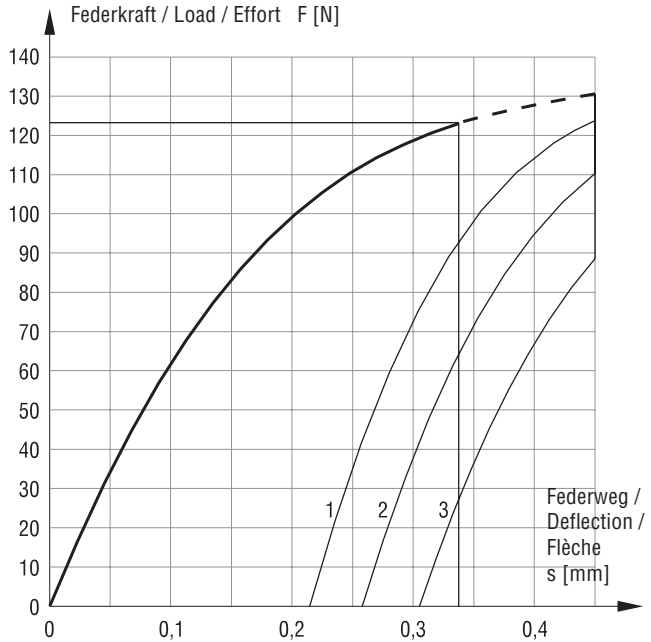
$D_e = 14$   
 $D_i = 7,2$   
 $t = 0,35$   
 $l_0 = 0,8$   
 $h_0 = 0,45$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,944$   
 $D_e/t = 40$   
 $h_0/t = 1,286$

**Gewicht / weight / poids**

0,308 kg / 1000 St. / pcs



**14 x 7,2 x 0,5**

DIN 2093 - B 14  
 Gruppe/Group/Groupe 1  
 Art.Nr. 002 800

**Abmessungen /  
 Dimensions [mm]**

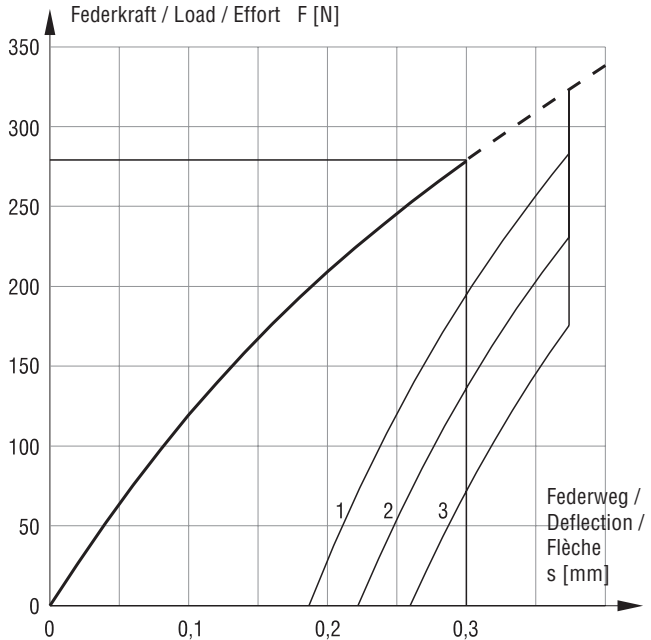
$D_e = 14$   
 $D_i = 7,2$   
 $t = 0,5$   
 $l_0 = 0,9$   
 $h_0 = 0,4$

**TF-Kennwerte /  
 parameters / rapports**

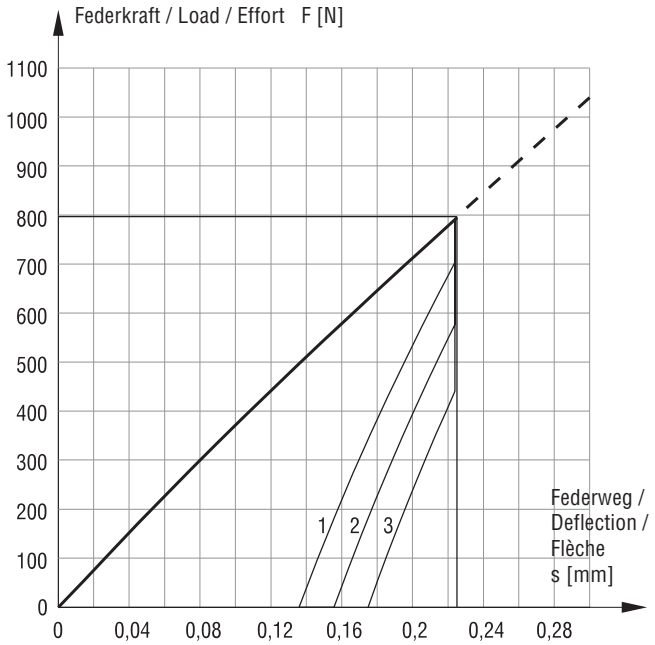
$D_e/D_i = 1,944$   
 $D_e/t = 28$   
 $h_0/t = 0,800$

**Gewicht / weight / poids**

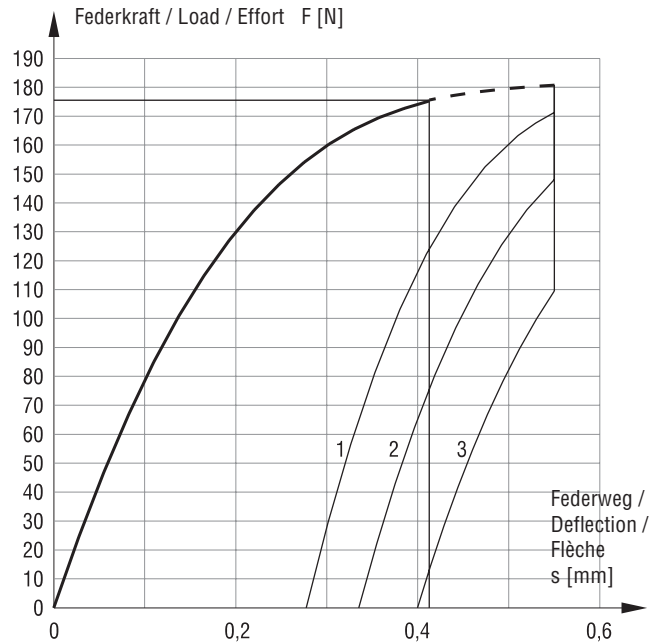
0,425 kg / 1000 St. / pcs



<b>14 x 7,2 x 0,8</b>
DIN 2093 - A 14 Gruppe/Group/Groupe 1 Art.Nr. 002 900
<b>Abmessungen / Dimensions [mm]</b> $D_e = 14$ $D_i = 7,2$ $t = 0,8$ $l_0 = 1,1$ $h_0 = 0,3$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,944$ $D_e/t = 17,50$ $h_0/t = 0,375$
<b>Gewicht / weight / poids</b> 0,676 kg / 1000 St. / pcs



<b>15 x 5,2 x 0,4</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 003 000
<b>Abmessungen / Dimensions [mm]</b> $D_e = 15$ $D_i = 5,2$ $t = 0,4$ $l_0 = 0,95$ $h_0 = 0,55$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,885$ $D_e/t = 37,50$ $h_0/t = 1,375$
<b>Gewicht / weight / poids</b> 0,468 kg / 1000 St. / pcs



**15 x 5,2 x 0,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 003100

**Abmessungen /  
 Dimensions [mm]**

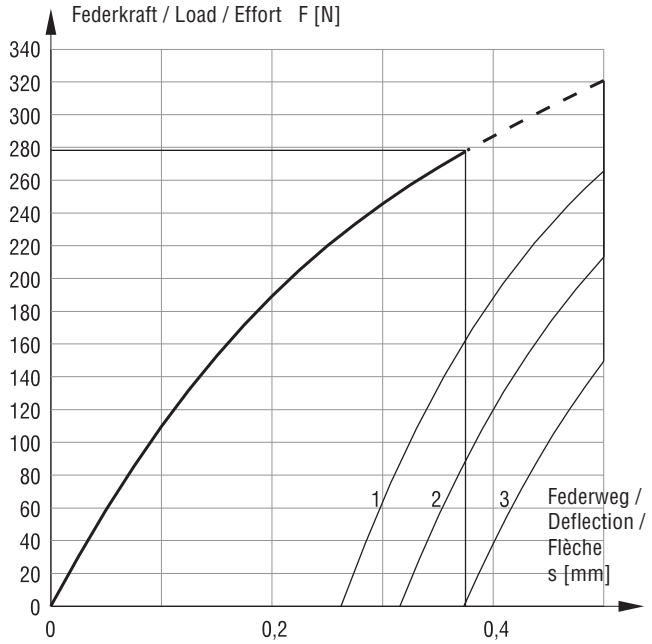
$D_e = 15$   
 $D_i = 5,2$   
 $t = 0,5$   
 $l_0 = 1,0$   
 $h_0 = 0,5$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,885$   
 $D_e/t = 30$   
 $h_0/t = 1,000$

**Gewicht / weight / poids**

0,588 kg / 1000 St. / pcs



**15 x 5,2 x 0,6**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 003200

**Abmessungen /  
 Dimensions [mm]**

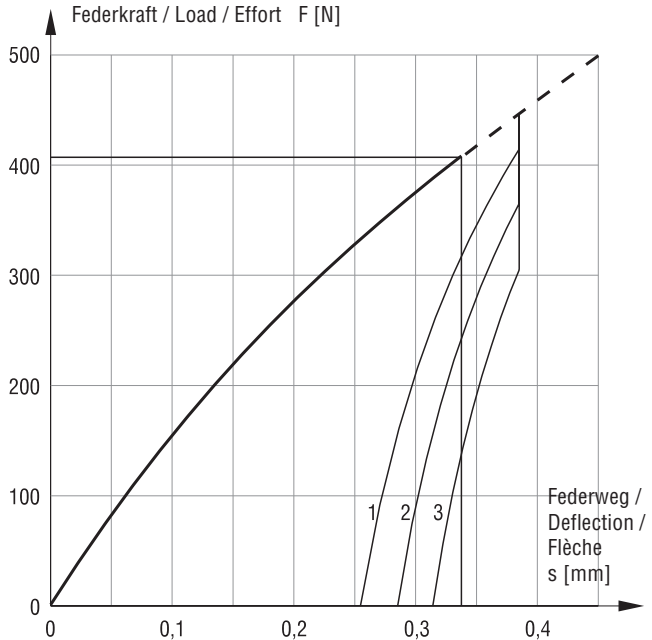
$D_e = 15$   
 $D_i = 5,2$   
 $t = 0,6$   
 $l_0 = 1,05$   
 $h_0 = 0,45$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,885$   
 $D_e/t = 25$   
 $h_0/t = 0,750$

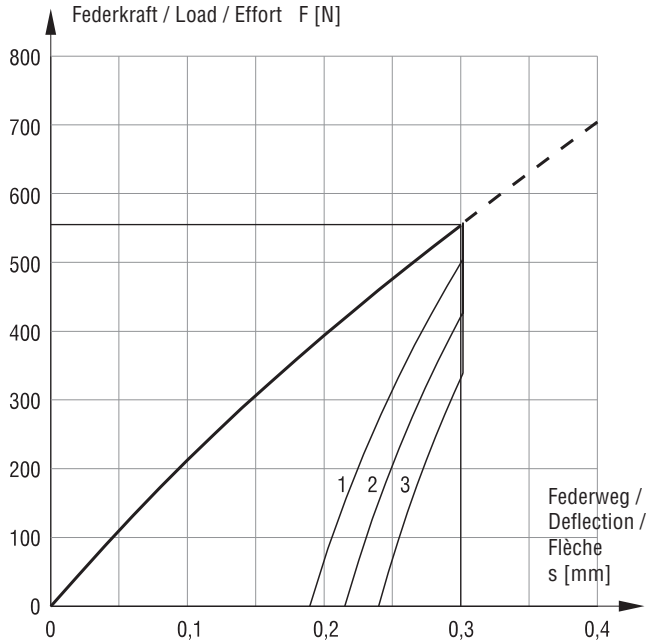
**Gewicht / weight / poids**

0,708 kg / 1000 St. / pcs

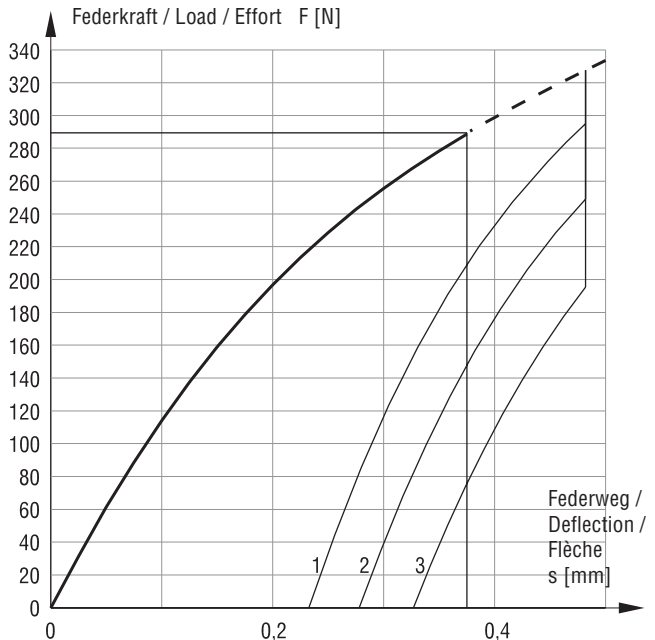




<b>15 x 5,2 x 0,7</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 003300
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 15 D <sub>i</sub> = 5,2 t = 0,7 l <sub>0</sub> = 1,1 h <sub>0</sub> = 0,4
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,885 D <sub>e</sub> /t = 21,43 h <sub>0</sub> /t = 0,571
<b>Gewicht / weight / poids</b> 0,828 kg / 1000 St. / pcs



<b>15 x 6,2 x 0,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 003500
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 15 D <sub>i</sub> = 6,2 t = 0,5 l <sub>0</sub> = 1,0 h <sub>0</sub> = 0,5
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,419 D <sub>e</sub> /t = 30 h <sub>0</sub> /t = 1,000
<b>Gewicht / weight / poids</b> 0,553 kg / 1000 St. / pcs



**15 x 6,2 x 0,6**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 003600

**Abmessungen /  
 Dimensions [mm]**

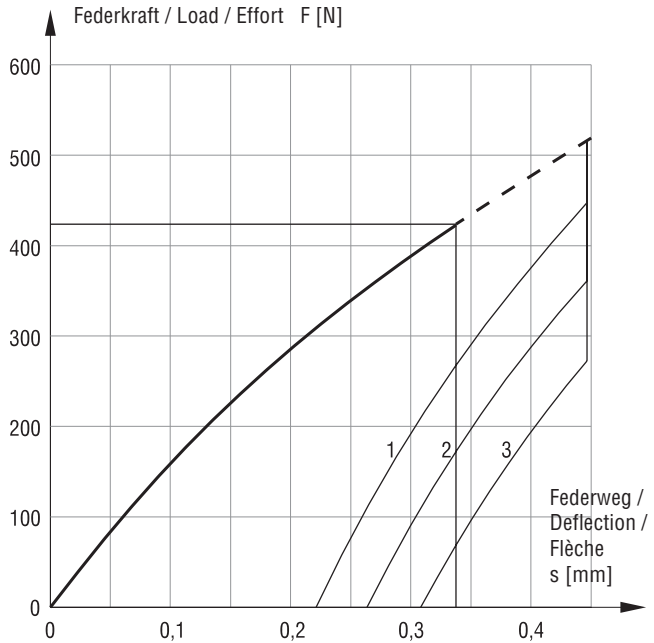
$D_e = 15$   
 $D_i = 6,2$   
 $t = 0,6$   
 $l_0 = 1,05$   
 $h_0 = 0,45$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,419$   
 $D_e/t = 25$   
 $h_0/t = 0,750$

**Gewicht / weight / poids**

0,665 kg / 1000 St. / pcs



**15 x 6,2 x 0,7**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 003700

**Abmessungen /  
 Dimensions [mm]**

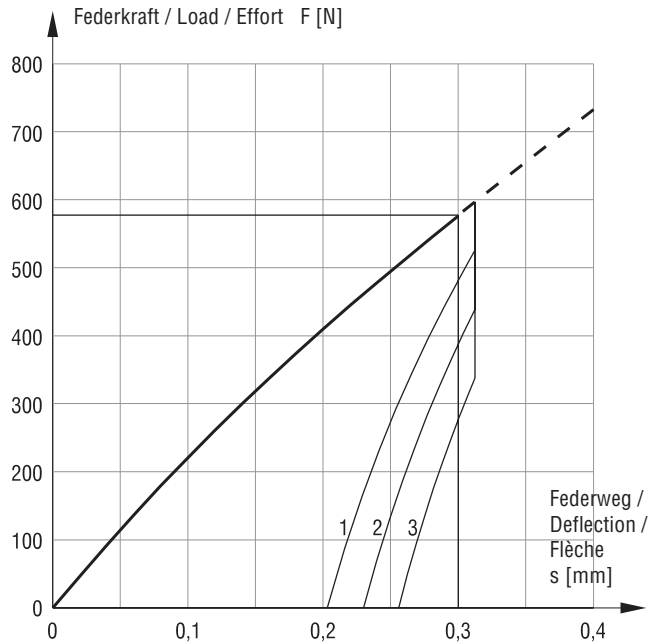
$D_e = 15$   
 $D_i = 6,2$   
 $t = 0,7$   
 $l_0 = 1,1$   
 $h_0 = 0,4$

**TF-Kennwerte /  
 parameters / rapports**

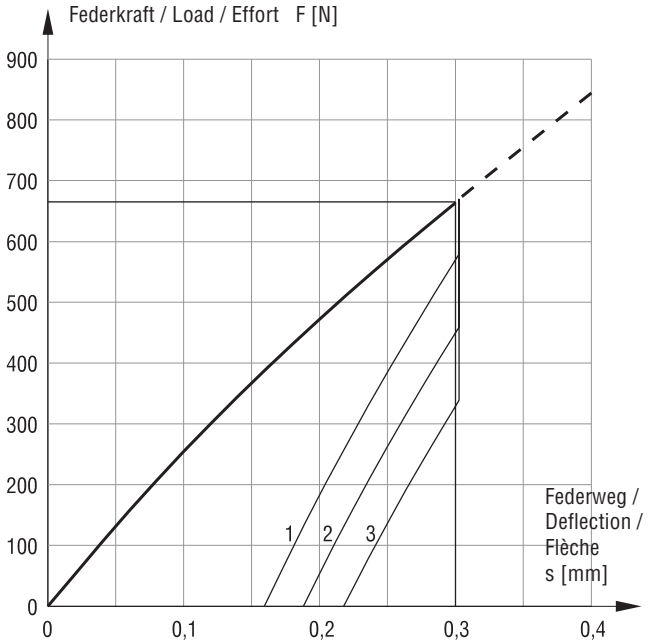
$D_e/D_i = 2,419$   
 $D_e/t = 21,43$   
 $h_0/t = 0,571$

**Gewicht / weight / poids**

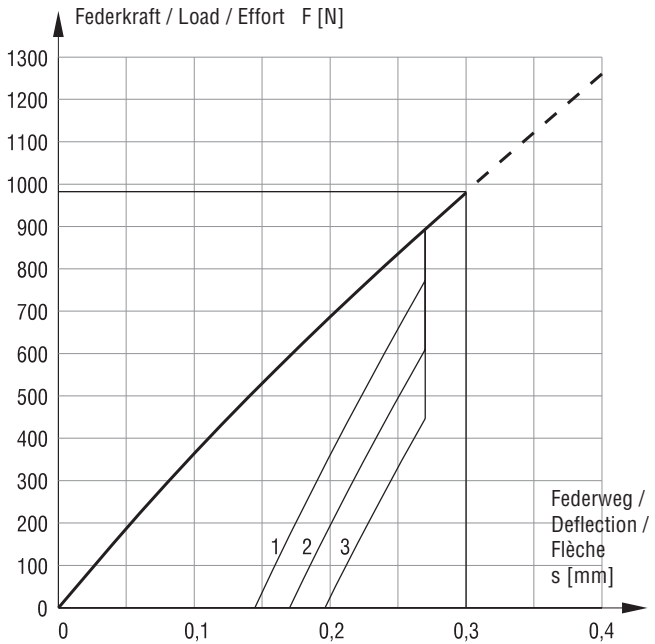
0,778 kg / 1000 St. / pcs



<b>15 x 8,2 x 0,7</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 003800
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 15 D <sub>i</sub> = 8,2 t = 0,7 l <sub>0</sub> = 1,1 h <sub>0</sub> = 0,4
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,829 D <sub>e</sub> /t = 21,43 h <sub>0</sub> /t = 0,571
<b>Gewicht / weight / poids</b> 0,654 kg / 1000 St. / pcs



<b>15 x 8,2 x 0,8</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 003900
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 15 D <sub>i</sub> = 8,2 t = 0,8 l <sub>0</sub> = 1,2 h <sub>0</sub> = 0,4
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,829 D <sub>e</sub> /t = 18,75 h <sub>0</sub> /t = 0,500
<b>Gewicht / weight / poids</b> 0,740 kg / 1000 St. / pcs



**16 x 8,2 x 0,4**

DIN 2093 - C 16  
 Gruppe/Group/Groupe 1  
 Art.Nr. 004100

**Abmessungen /  
 Dimensions [mm]**

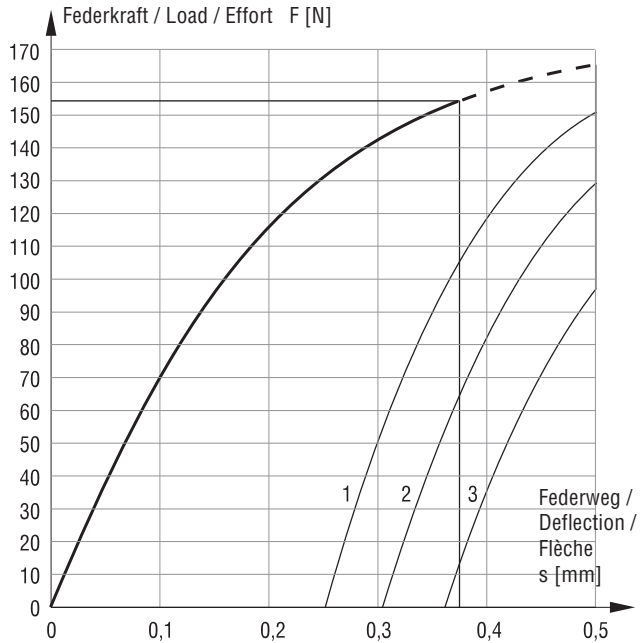
$D_e = 16$   
 $D_i = 8,2$   
 $t = 0,4$   
 $l_0 = 0,9$   
 $h_0 = 0,5$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,951$   
 $D_e/t = 40$   
 $h_0/t = 1,250$

**Gewicht / weight / poids**

0,444 kg / 1000 St. / pcs



**16 x 8,2 x 0,6**

DIN 2093 - B 16  
 Gruppe/Group/Groupe 1  
 Art.Nr. 004300

**Abmessungen /  
 Dimensions [mm]**

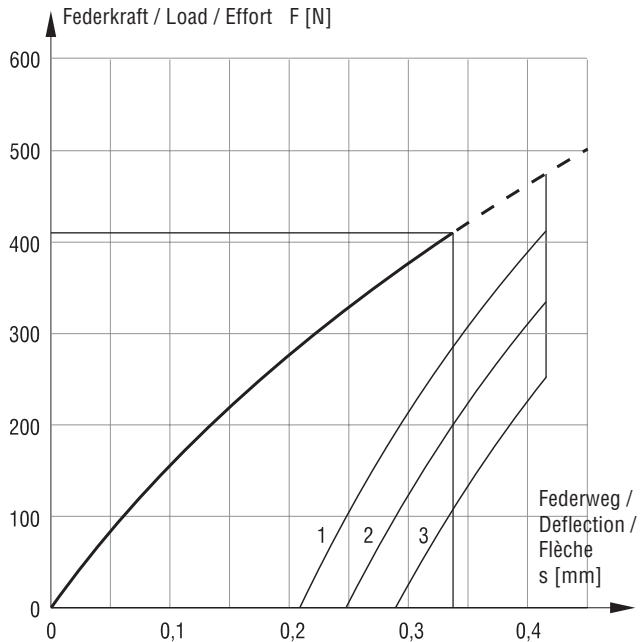
$D_e = 16$   
 $D_i = 8,2$   
 $t = 0,6$   
 $l_0 = 1,05$   
 $h_0 = 0,45$

**TF-Kennwerte /  
 parameters / rapports**

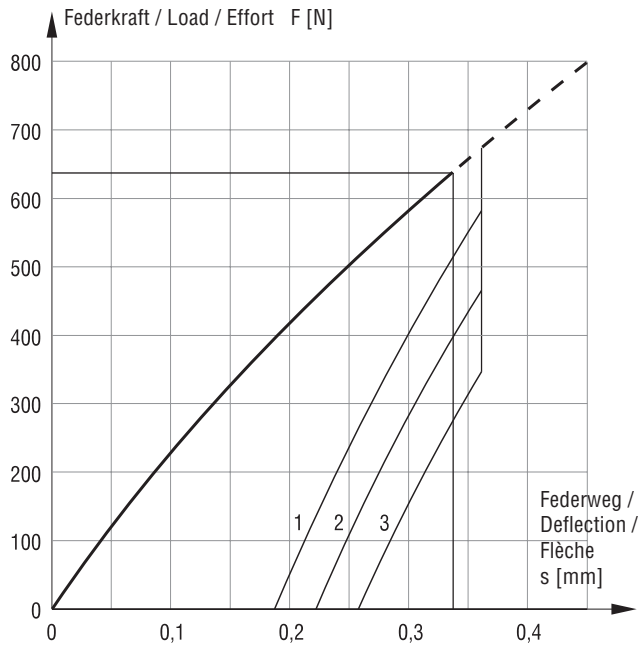
$D_e/D_i = 1,951$   
 $D_e/t = 26,67$   
 $h_0/t = 0,750$

**Gewicht / weight / poids**

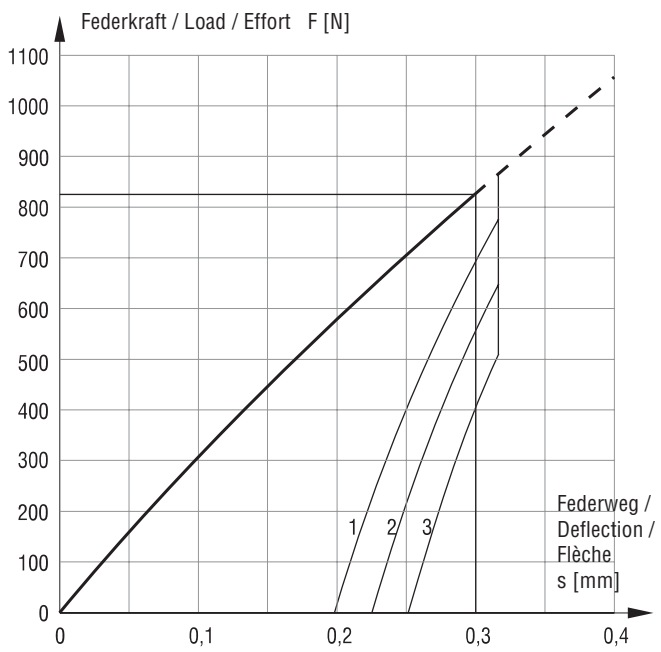
0,672 kg / 1000 St. / pcs



<b>16 x 8,2 x 07</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 004 400
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 16 D <sub>i</sub> = 8,2 t = 0,7 l <sub>0</sub> = 1,15 h <sub>0</sub> = 0,45
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,951 D <sub>e</sub> /t = 22,86 h <sub>0</sub> /t = 0,643
<b>Gewicht / weight / poids</b> 0,786 kg / 1000 St. / pcs



<b>16 x 8,2 x 0,8</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 004 500
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 16 D <sub>i</sub> = 8,2 t = 0,8 l <sub>0</sub> = 1,2 h <sub>0</sub> = 0,4
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,951 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,500
<b>Gewicht / weight / poids</b> 0,888 kg / 1000 St. / pcs



**16 x 8,2 x 0,9**

DIN 2093 - A 16  
 Gruppe/Group/Groupe 1  
 Art.Nr. 004 600

**Abmessungen /  
 Dimensions [mm]**

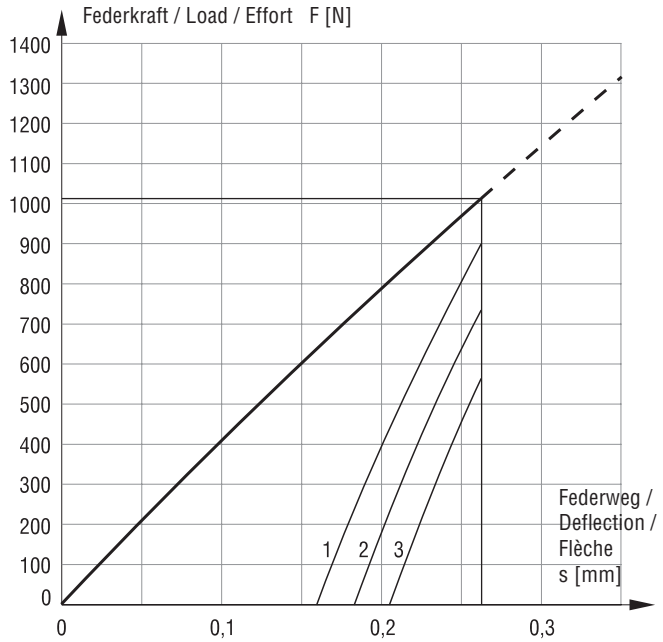
$D_e = 16$   
 $D_i = 8,2$   
 $t = 0,9$   
 $l_0 = 1,25$   
 $h_0 = 0,35$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,951$   
 $D_e/t = 17,78$   
 $h_0/t = 0,389$

**Gewicht / weight / poids**

1,002 kg / 1000 St. / pcs



**18 x 6,2 x 0,4**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 004 700

**Abmessungen /  
 Dimensions [mm]**

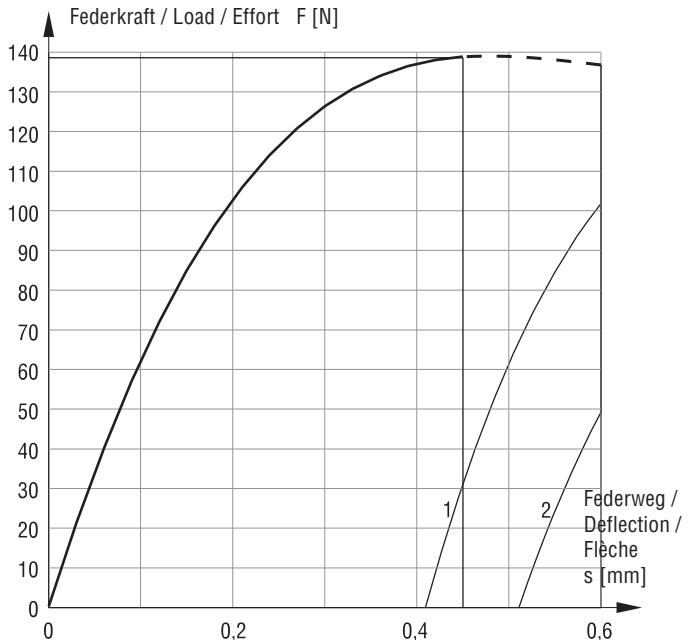
$D_e = 18$   
 $D_i = 6,2$   
 $t = 0,4$   
 $l_0 = 1,0$   
 $h_0 = 0,6$

**TF-Kennwerte /  
 parameters / rapports**

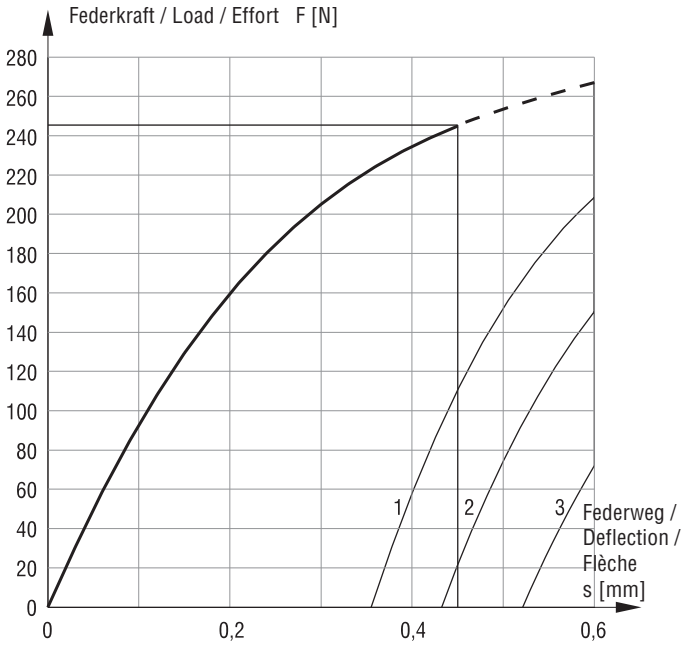
$D_e/D_i = 2,903$   
 $D_e/t = 45$   
 $h_0/t = 1,500$

**Gewicht / weight / poids**

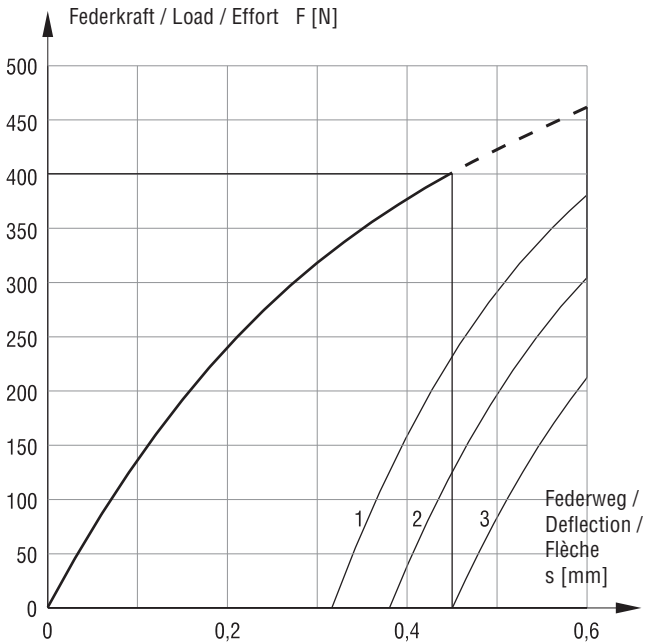
0,677 kg / 1000 St. / pcs



<b>18 x 6,2 x 0,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 004 800
<b>Abmessungen / Dimensions [mm]</b>
$D_e = 18$ $D_i = 6,2$ $t = 0,5$ $l_0 = 1,1$ $h_0 = 0,6$
<b>TF-Kennwerte / parameters / rapports</b>
$D_e/D_i = 2,903$ $D_e/t = 36$ $h_0/t = 1,200$
<b>Gewicht / weight / poids</b> 0,850 kg / 1000 St. / pcs



<b>18 x 6,2 x 0,6</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 004 900
<b>Abmessungen / Dimensions [mm]</b>
$D_e = 18$ $D_i = 6,2$ $t = 0,6$ $l_0 = 1,2$ $h_0 = 0,6$
<b>TF-Kennwerte / parameters / rapports</b>
$D_e/D_i = 2,903$ $D_e/t = 30$ $h_0/t = 1,000$
<b>Gewicht / weight / poids</b> 1,024 kg / 1000 St. / pcs



**18 x 6,2 x 0,7**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 005 000

**Abmessungen /  
 Dimensions [mm]**

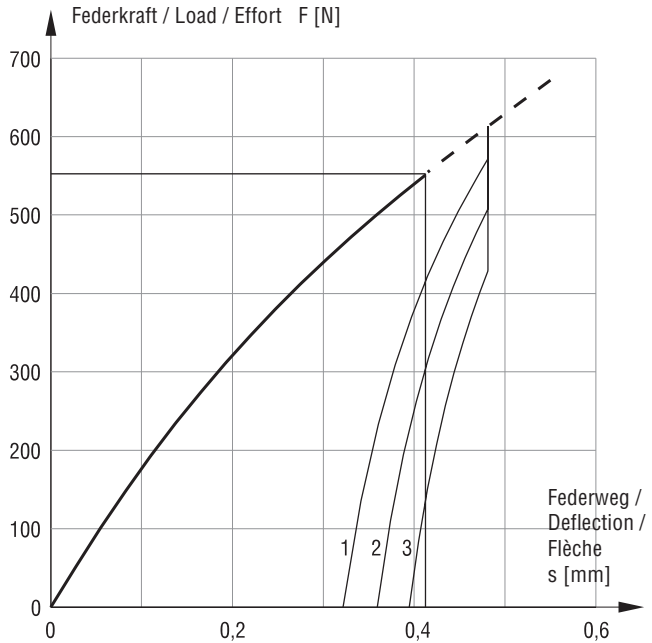
$D_e = 18$   
 $D_i = 6,2$   
 $t = 0,7$   
 $l_0 = 1,25$   
 $h_0 = 0,55$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,903$   
 $D_e/t = 25,71$   
 $h_0/t = 0,786$

**Gewicht / weight / poids**

1,197 kg / 1000 St. / pcs



**18 x 6,2 x 0,8**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 005 100

**Abmessungen /  
 Dimensions [mm]**

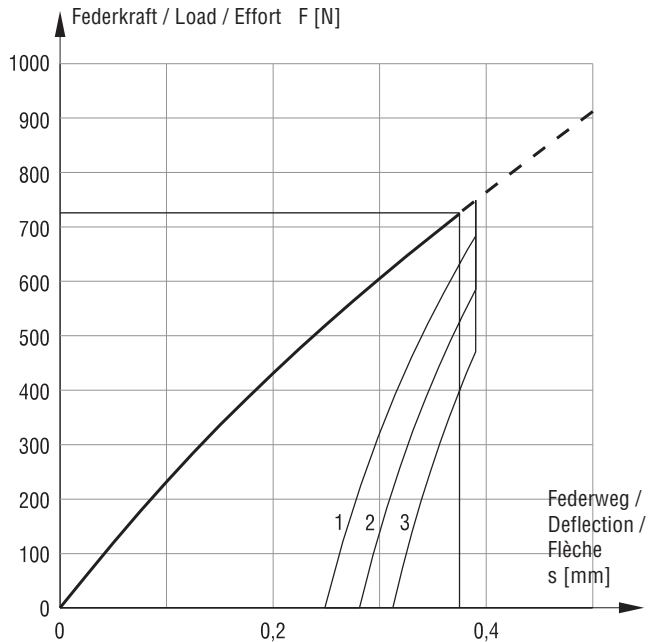
$D_e = 18$   
 $D_i = 6,2$   
 $t = 0,8$   
 $l_0 = 1,3$   
 $h_0 = 0,5$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,903$   
 $D_e/t = 22,50$   
 $h_0/t = 0,625$

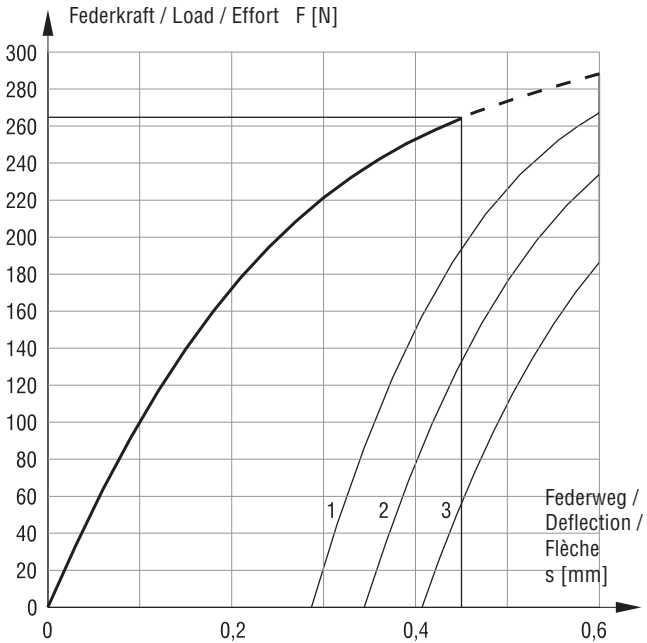
**Gewicht / weight / poids**

1,353 kg / 1000 St. / pcs

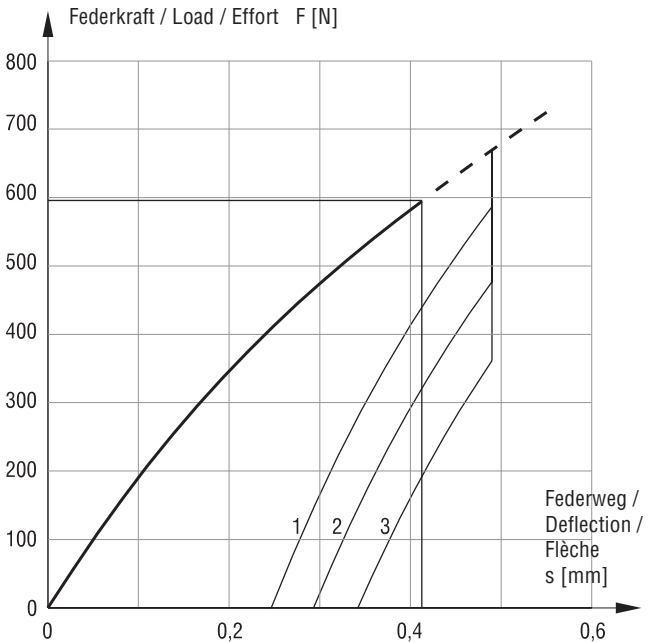




<b>18 x 8,2 x 0,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 005 200
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 18 D <sub>i</sub> = 8,2 t = 0,5 l <sub>0</sub> = 1,1 h <sub>0</sub> = 0,6
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,195 D <sub>e</sub> /t = 36 h <sub>0</sub> /t = 1,200
<b>Gewicht / weight / poids</b> 0,762 kg / 1000 St. / pcs



<b>18 x 8,2 x 0,7</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 005 300
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 18 D <sub>i</sub> = 8,2 t = 0,7 l <sub>0</sub> = 1,25 h <sub>0</sub> = 0,55
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,195 D <sub>e</sub> /t = 25,71 h <sub>0</sub> /t = 0,786
<b>Gewicht / weight / poids</b> 1,073 kg / 1000 St. / pcs



**18 x 8,2 x 0,8**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 005 400

**Abmessungen /  
 Dimensions [mm]**

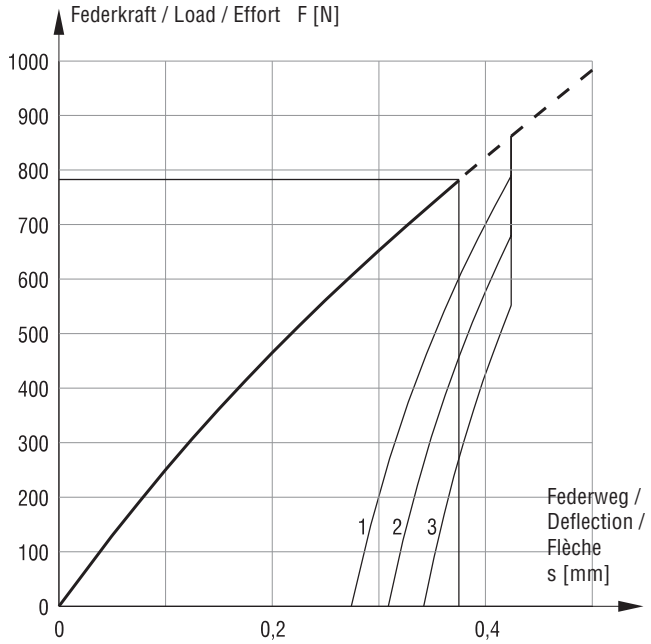
$D_e = 18$   
 $D_i = 8,2$   
 $t = 0,8$   
 $l_0 = 1,3$   
 $h_0 = 0,5$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,195$   
 $D_e/t = 22,50$   
 $h_0/t = 0,625$

**Gewicht / weight / poids**

1,213 kg / 1000 St. / pcs



**18 x 8,2 x 1**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 005 500

**Abmessungen /  
 Dimensions [mm]**

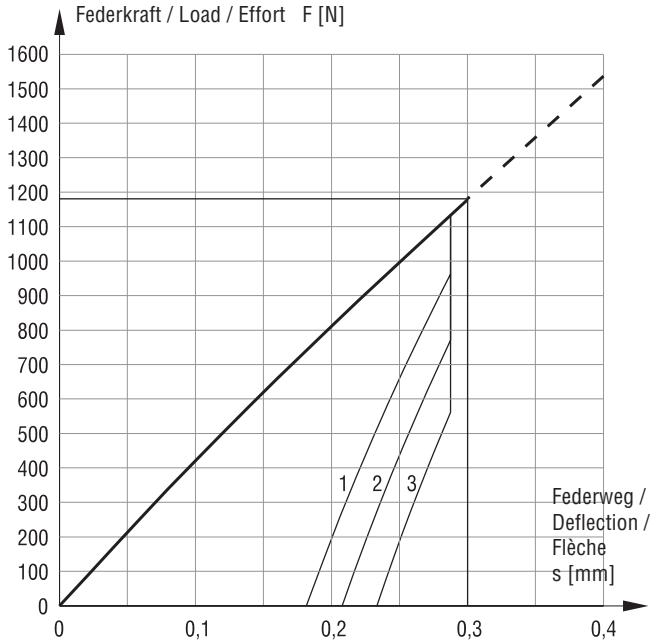
$D_e = 18$   
 $D_i = 8,2$   
 $t = 1,0$   
 $l_0 = 1,4$   
 $h_0 = 0,4$

**TF-Kennwerte /  
 parameters / rapports**

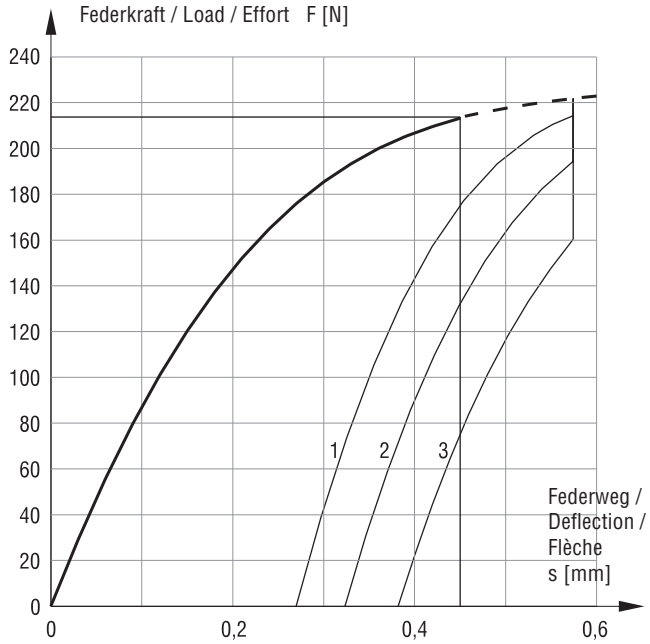
$D_e/D_i = 2,195$   
 $D_e/t = 18$   
 $h_0/t = 0,400$

**Gewicht / weight / poids**

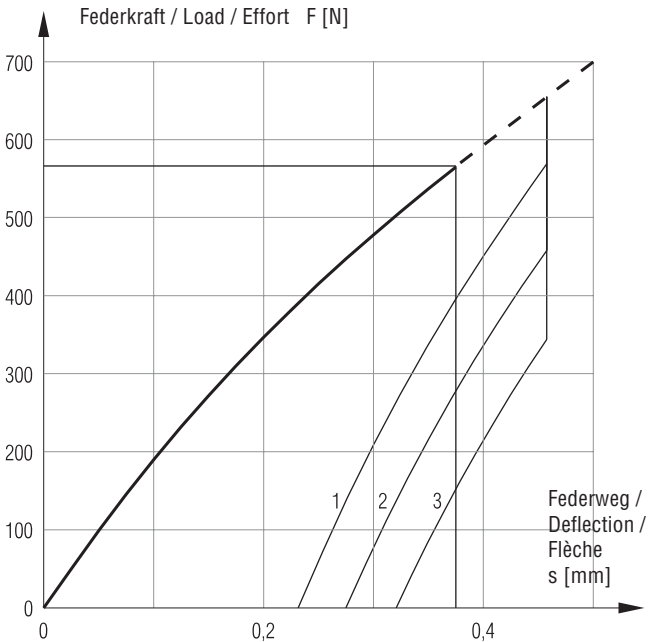
1,524 kg / 1000 St. / pcs



<b>18 x 9,2 x 0,45</b>
DIN 2093 - C 18 Gruppe/Group/Groupe 1 Art.Nr. 005 550
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 18 D <sub>i</sub> = 9,2 t = 0,45 l <sub>0</sub> = 1,05 h <sub>0</sub> = 0,6
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,957 D <sub>e</sub> /t = 40 h <sub>0</sub> /t = 1,333
<b>Gewicht / weight / poids</b> 0,651 kg / 1000 St. / pcs



<b>18 x 9,2 x 0,7</b>
DIN 2093 - B 18 Gruppe/Group/Groupe 1 Art.Nr. 005 600
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 18 D <sub>i</sub> = 9,2 t = 0,7 l <sub>0</sub> = 1,2 h <sub>0</sub> = 0,5
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,957 D <sub>e</sub> /t = 25,71 h <sub>0</sub> /t = 0,714
<b>Gewicht / weight / poids</b> 0,999 kg / 1000 St. / pcs



**18 x 9,2 x 1**

DIN 2093 - A 18  
 Gruppe/Group/Groupe 1  
 Art.Nr. 005 700

**Abmessungen /  
 Dimensions [mm]**

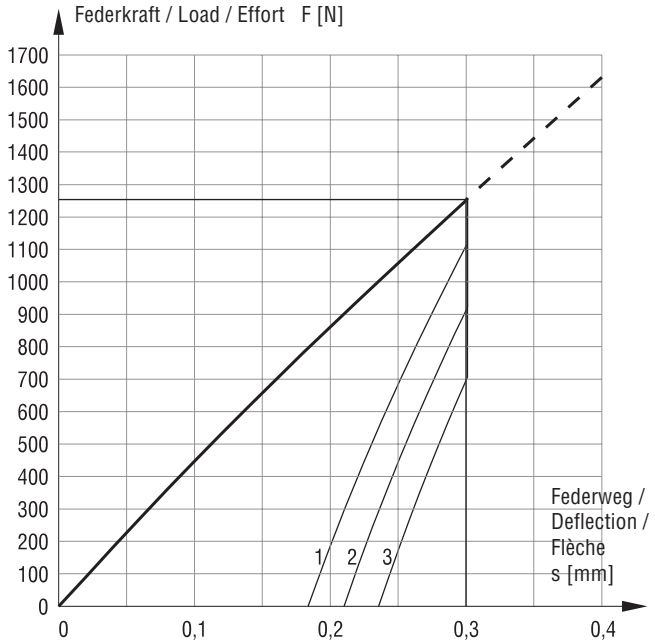
$D_e = 18$   
 $D_i = 9,2$   
 $t = 1,0$   
 $l_0 = 1,4$   
 $h_0 = 0,4$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,957$   
 $D_e/t = 18$   
 $h_0/t = 0,400$

**Gewicht / weight / poids**

1,418 kg / 1000 St. / pcs



**20 x 8,2 x 0,6**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 005 800

**Abmessungen /  
 Dimensions [mm]**

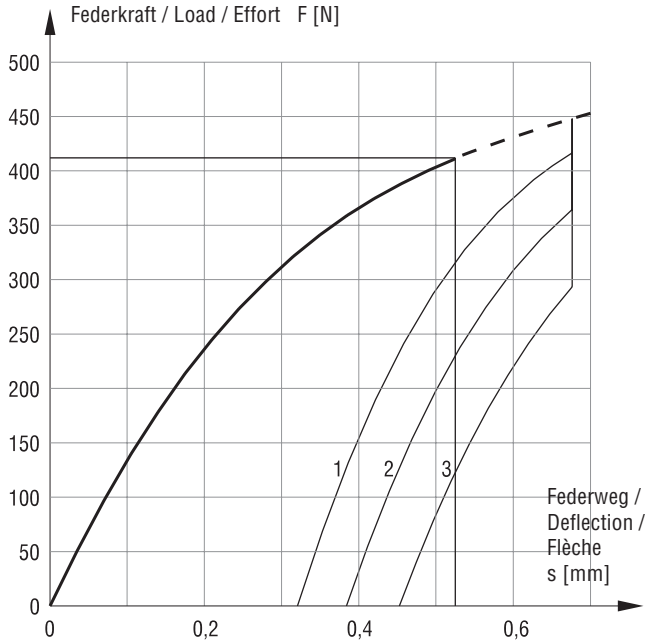
$D_e = 20$   
 $D_i = 8,2$   
 $t = 0,6$   
 $l_0 = 1,3$   
 $h_0 = 0,7$

**TF-Kennwerte /  
 parameters / rapports**

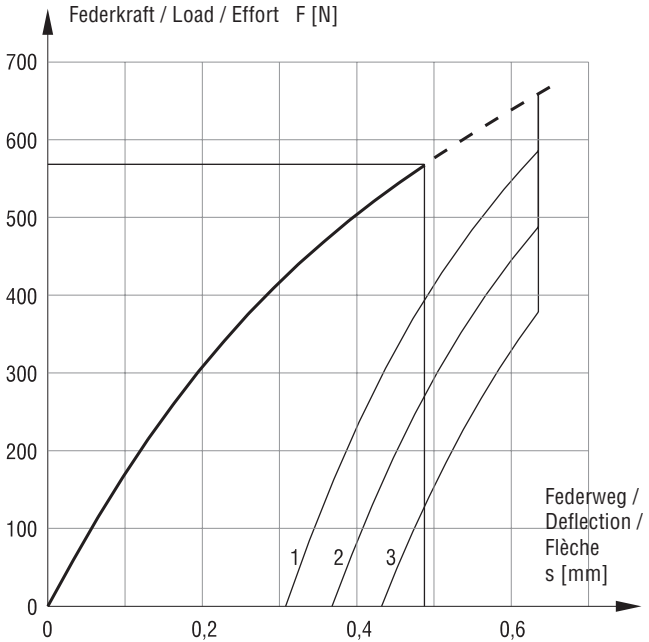
$D_e/D_i = 2,439$   
 $D_e/t = 33,33$   
 $h_0/t = 1,167$

**Gewicht / weight / poids**

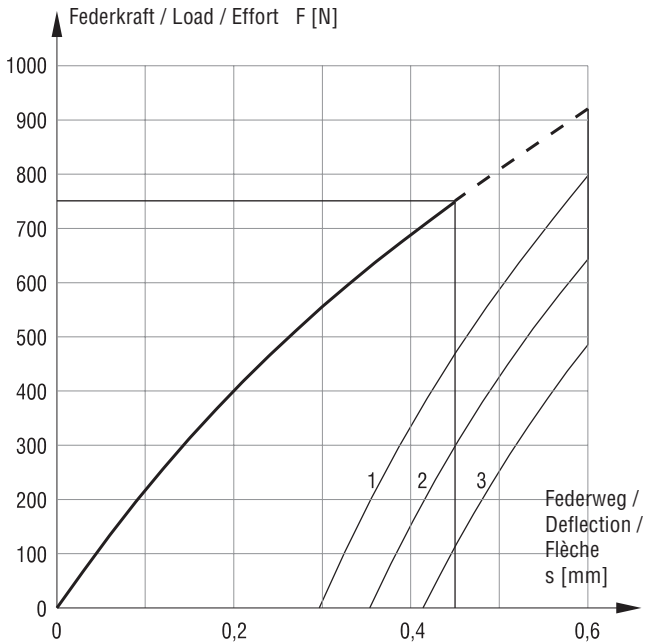
1,191 kg / 1000 St. / pcs



<b>20 x 8,2 x 0,7</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 005900
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 20 D <sub>i</sub> = 8,2 t = 0,7 l <sub>0</sub> = 1,35 h <sub>0</sub> = 0,65
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,439 D <sub>e</sub> <sup>3</sup> /t = 28,57 h <sub>0</sub> /t = 0,929
<b>Gewicht / weight / poids</b> 1,393 kg / 1000 St. / pcs



<b>20 x 8,2 x 0,8</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 006 000
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 20 D <sub>i</sub> = 8,2 t = 0,8 l <sub>0</sub> = 1,4 h <sub>0</sub> = 0,6
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,439 D <sub>e</sub> <sup>3</sup> /t = 25 h <sub>0</sub> /t = 0,750
<b>Gewicht / weight / poids</b> 1,574 kg / 1000 St. / pcs



**20 x 8,2 x 0,9**

Schnorr Werksnorm  
Gruppe/Group/Groupe 1  
Art.Nr. 006 100

**Abmessungen /  
Dimensions [mm]**

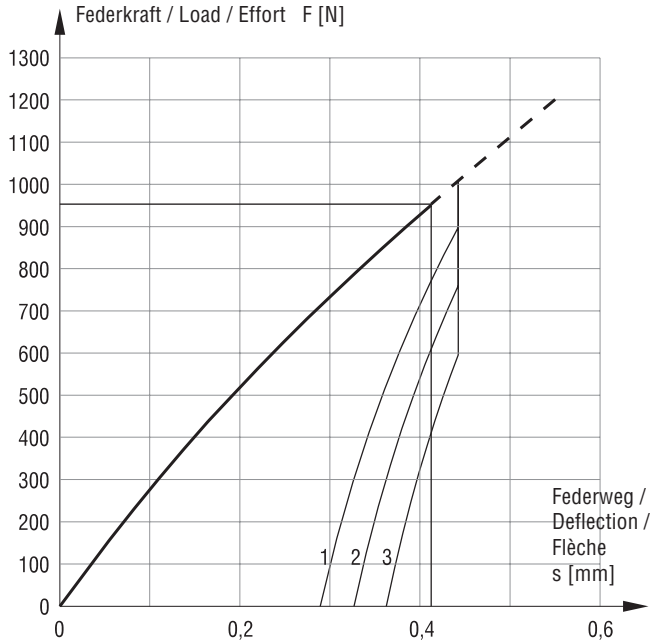
$D_e = 20$   
 $D_i = 8,2$   
 $t = 0,9$   
 $l_0 = 1,45$   
 $h_0 = 0,55$

**TF-Kennwerte /  
parameters / rapports**

$D_e/D_i = 2,439$   
 $D_e/t = 22,22$   
 $h_0/t = 0,611$

**Gewicht / weight / poids**

1,776 kg / 1000 St. / pcs



**20 x 8,2 x 1**

Schnorr Werksnorm  
Gruppe/Group/Groupe 1  
Art.Nr. 006 200

**Abmessungen /  
Dimensions [mm]**

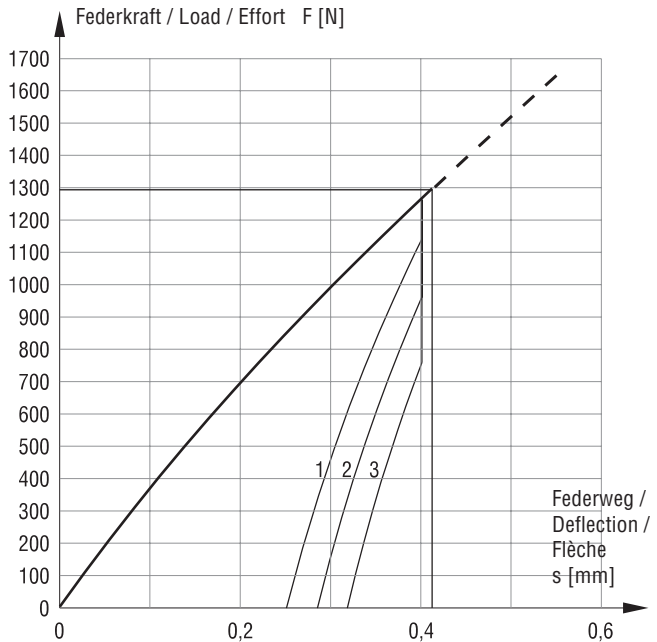
$D_e = 20$   
 $D_i = 8,2$   
 $t = 1,0$   
 $l_0 = 1,55$   
 $h_0 = 0,55$

**TF-Kennwerte /  
parameters / rapports**

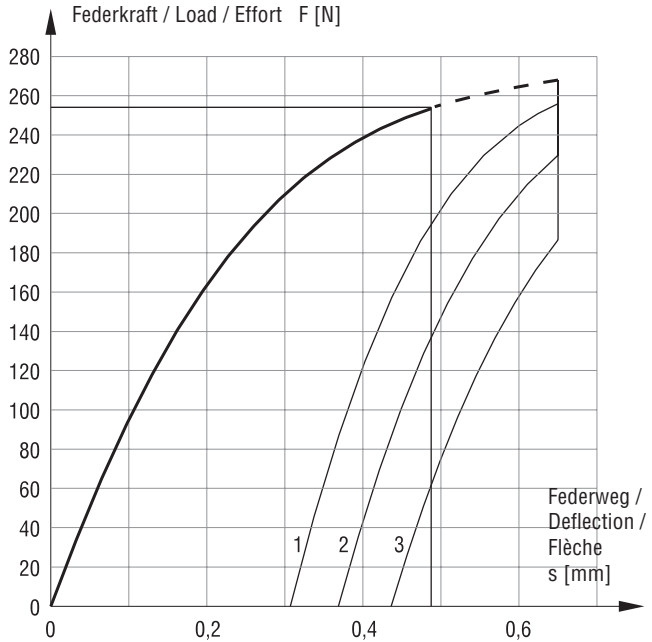
$D_e/D_i = 2,439$   
 $D_e/t = 20$   
 $h_0/t = 0,550$

**Gewicht / weight / poids**

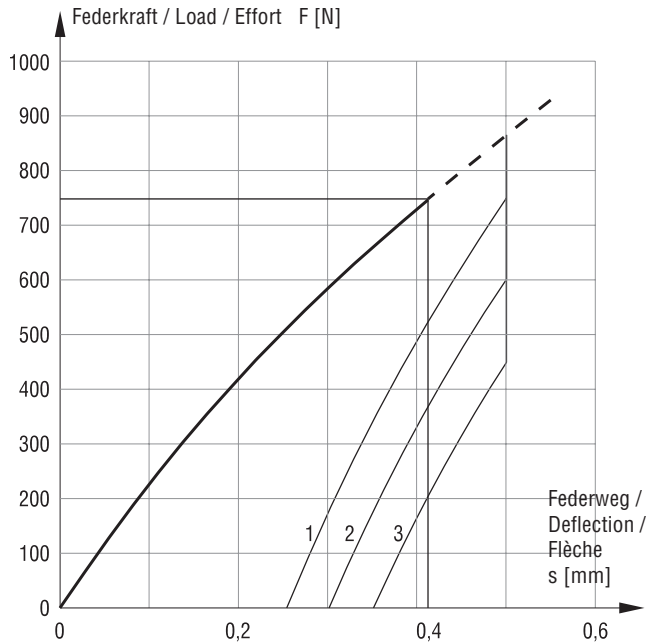
1,978 kg / 1000 St. / pcs



<b>20 x 10,2 x 0,5</b>
DIN 2093 - C 20 Gruppe/Group/Groupe 1 Art.Nr. 006300
<b>Abmessungen / Dimensions [mm]</b> $D_e = 20$ $D_i = 10,2$ $t = 0,5$ $l_0 = 1,15$ $h_0 = 0,65$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,961$ $D_e/t = 40$ $h_0/t = 1,300$
<b>Gewicht / weight / poids</b> 0,876 kg / 1000 St. / pcs



<b>20 x 10,2 x 0,8</b>
DIN 2093 - B 20 Gruppe/Group/Groupe 1 Art.Nr. 006 400
<b>Abmessungen / Dimensions [mm]</b> $D_e = 20$ $D_i = 10,2$ $t = 0,8$ $l_0 = 1,35$ $h_0 = 0,55$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,961$ $D_e/t = 25$ $h_0/t = 0,688$
<b>Gewicht / weight / poids</b> 1,394 kg / 1000 St. / pcs



**20 x 10,2 x 0,9**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 006 500

**Abmessungen /  
 Dimensions [mm]**

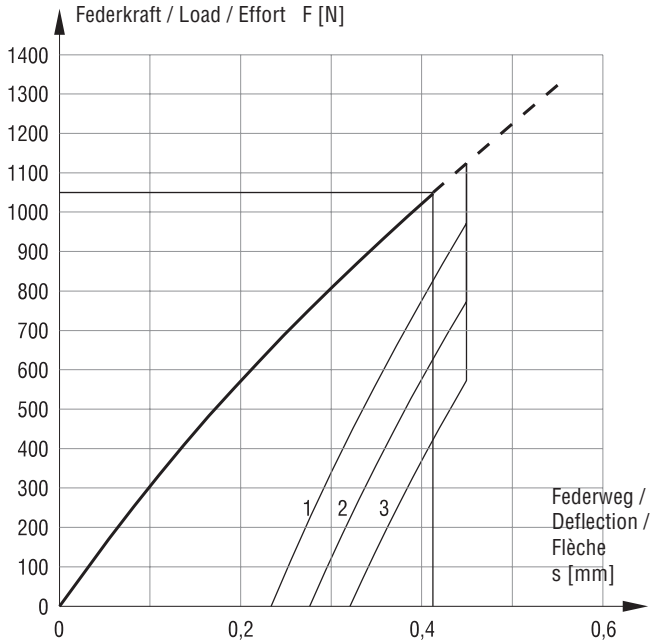
$D_e = 20$   
 $D_i = 10,2$   
 $t = 0,9$   
 $l_0 = 1,45$   
 $h_0 = 0,55$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,961$   
 $D_e/t = 22,22$   
 $h_0/t = 0,611$

**Gewicht / weight / poids**

1,573 kg / 1000 St. / pcs



**20 x 10,2 x 1**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 006 600

**Abmessungen /  
 Dimensions [mm]**

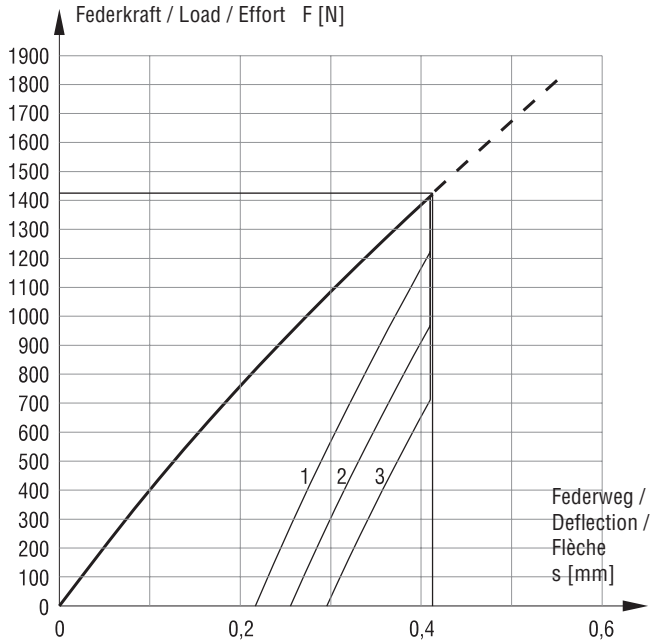
$D_e = 20$   
 $D_i = 10,2$   
 $t = 1,0$   
 $l_0 = 1,55$   
 $h_0 = 0,55$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,961$   
 $D_e/t = 20$   
 $h_0/t = 0,550$

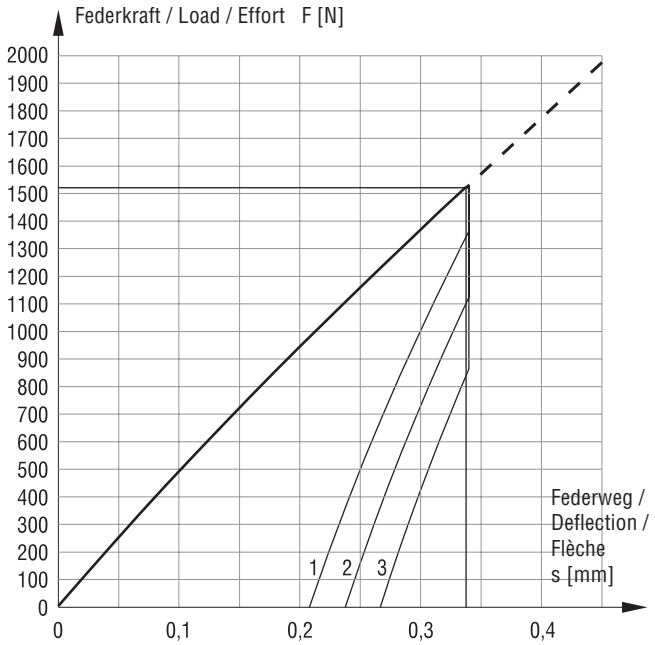
**Gewicht / weight / poids**

1,752 kg / 1000 St. / pcs

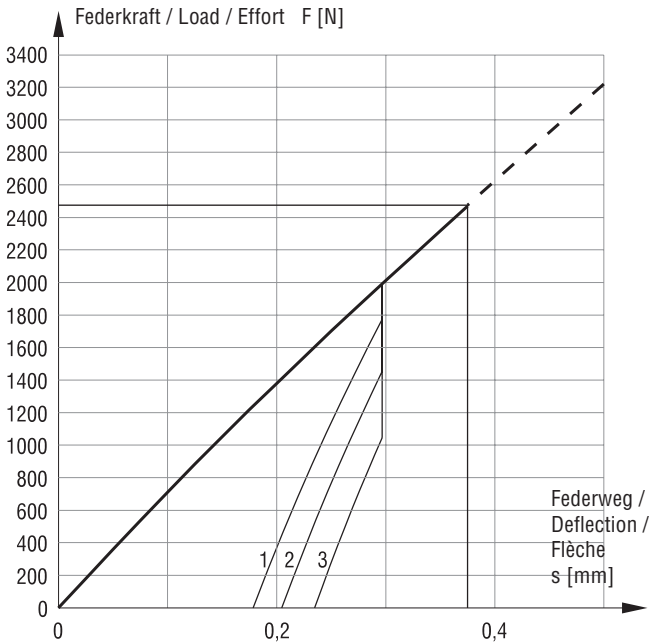




<b>20 x 10,2 x 1,1</b>
DIN 2093 - A 20 Gruppe/Group/Groupe 1 Art.Nr. 006 700
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 20 D <sub>i</sub> = 10,2 t = 1,1 l <sub>0</sub> = 1,55 h <sub>0</sub> = 0,45
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,961 D <sub>e</sub> /t = 18,18 h <sub>0</sub> /t = 0,409
<b>Gewicht / weight / poids</b> 1,913 kg / 1000 St. / pcs



<b>20 x 10,2 x 1,25</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 006 800
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 20 D <sub>i</sub> = 10,2 t = 1,25 l <sub>0</sub> = 1,75 h <sub>0</sub> = 0,5
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,961 D <sub>e</sub> /t = 16 h <sub>0</sub> /t = 0,400
<b>Gewicht / weight / poids</b> 2,181 kg / 1000 St. / pcs



**20 x 10,2 x 1,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 006 900

**Abmessungen /  
 Dimensions [mm]**

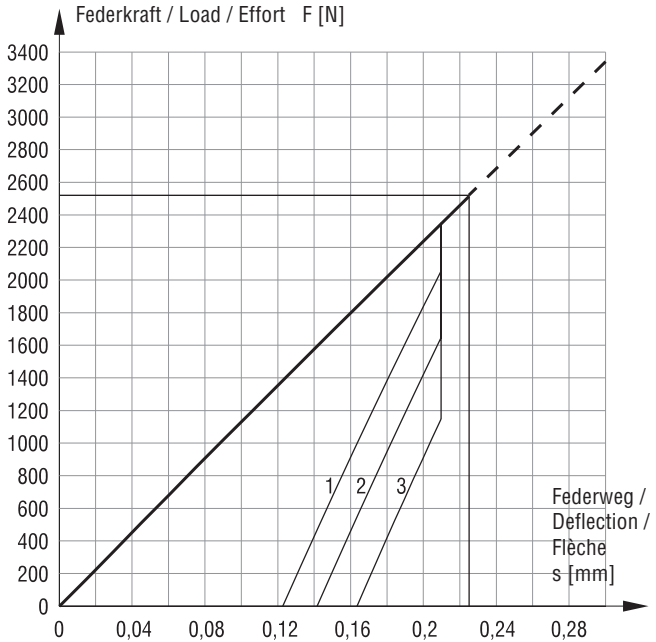
$D_e = 20$   
 $D_i = 10,2$   
 $t = 1,5$   
 $l_0 = 1,8$   
 $h_0 = 0,3$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,961$   
 $D_e/t = 13,33$   
 $h_0/t = 0,200$

**Gewicht / weight / poids**

2,610 kg / 1000 St. / pcs



**22,5 x 11,2 x 0,6**

DIN 2093 - C 22,5  
 Gruppe/Group/Groupe 1  
 Art.Nr. 007 000

**Abmessungen /  
 Dimensions [mm]**

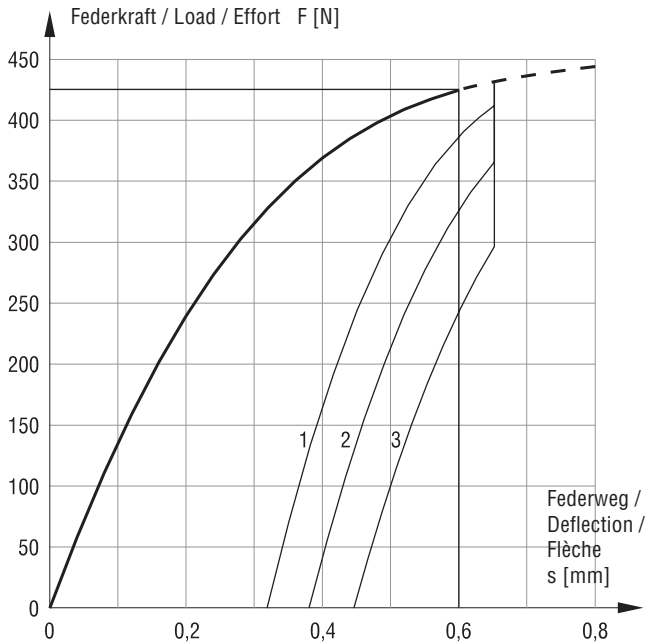
$D_e = 22,5$   
 $D_i = 11,2$   
 $t = 0,6$   
 $l_0 = 1,4$   
 $h_0 = 0,8$

**TF-Kennwerte /  
 parameters / rapports**

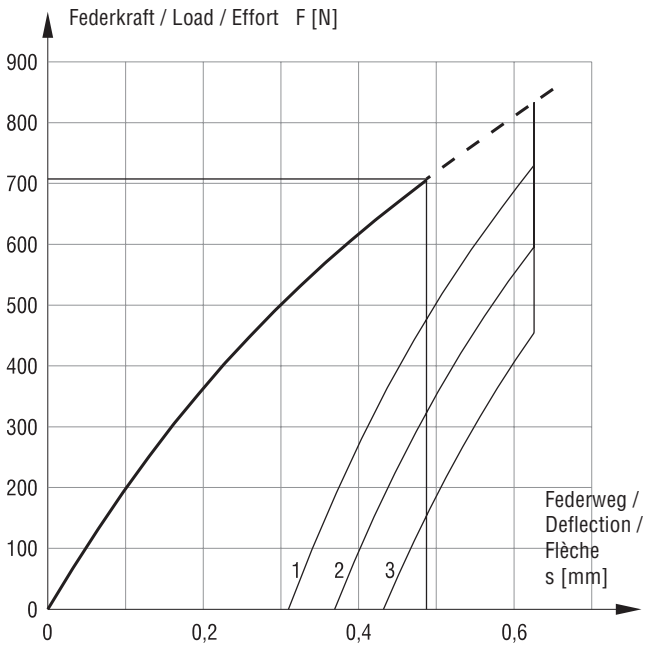
$D_e/D_i = 2,009$   
 $D_e/t = 37,50$   
 $h_0/t = 1,333$

**Gewicht / weight / poids**

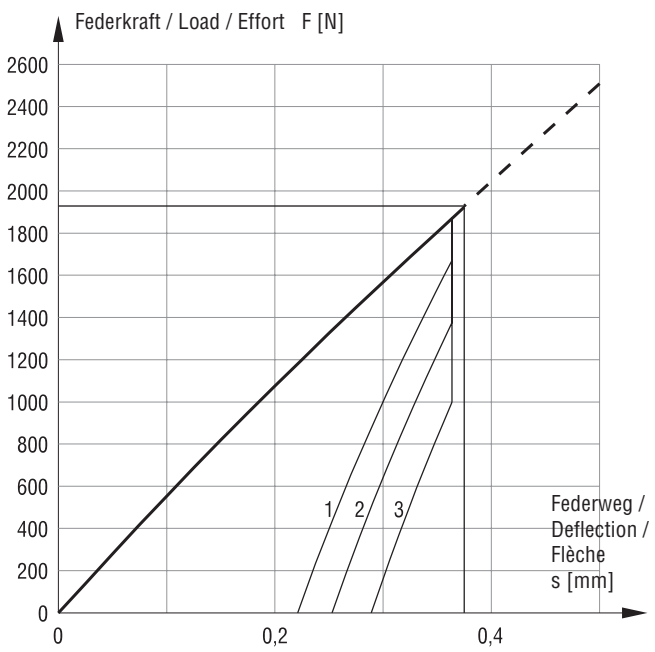
1,361 kg / 1000 St. / pcs



<b>22,5 x 11,2 x 0,8</b>
DIN 2093 - B 22,5 Gruppe/Group/Groupe 1 Art.Nr. 007 100
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 22,5 D <sub>i</sub> = 11,2 t = 0,8 l <sub>0</sub> = 1,45 h <sub>0</sub> = 0,65
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,009 D <sub>e</sub> /t = 28,13 h <sub>0</sub> /t = 0,813
<b>Gewicht / weight / poids</b> 1,799 kg / 1000 St. / pcs



<b>22,5 x 11,2 x 1,25</b>
DIN 2093 - A 22,5 Gruppe/Group/Groupe 2 Art.Nr. 007 200
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 22,5 D <sub>i</sub> = 11,2 t = 1,25 l <sub>0</sub> = 1,75 h <sub>0</sub> = 0,5
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,009 D <sub>e</sub> /t = 18 h <sub>0</sub> /t = 0,400
<b>Gewicht / weight / poids</b> 2,814 kg / 1000 St. / pcs



**23 x 8,2 x 0,7**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 007 400

**Abmessungen /  
 Dimensions [mm]**

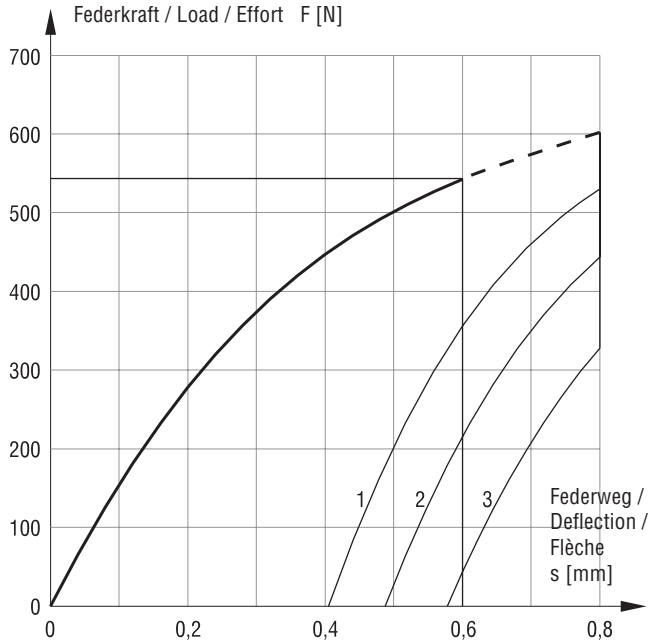
$D_e = 23$   
 $D_i = 8,2$   
 $t = 0,7$   
 $l_0 = 1,5$   
 $h_0 = 0,8$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,805$   
 $D_e/t = 32,86$   
 $h_0/t = 1,143$

**Gewicht / weight / poids**

1,939 kg / 1000 St. / pcs



**23 x 8,2 x 0,8**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 007 500

**Abmessungen /  
 Dimensions [mm]**

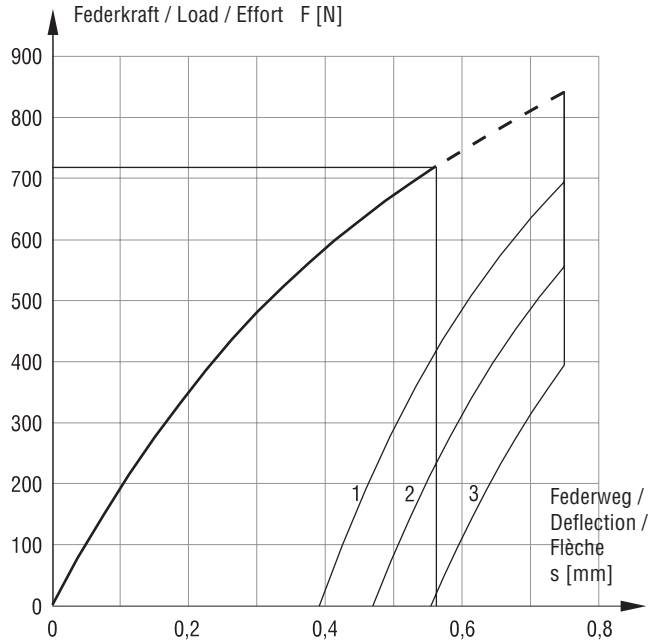
$D_e = 23$   
 $D_i = 8,2$   
 $t = 0,8$   
 $l_0 = 1,55$   
 $h_0 = 0,75$

**TF-Kennwerte /  
 parameters / rapports**

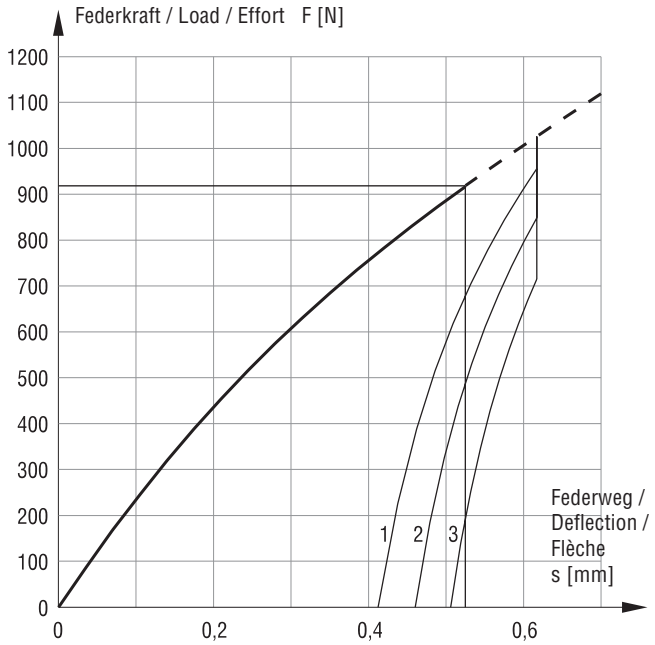
$D_e/D_i = 2,805$   
 $D_e/t = 28,75$   
 $h_0/t = 0,938$

**Gewicht / weight / poids**

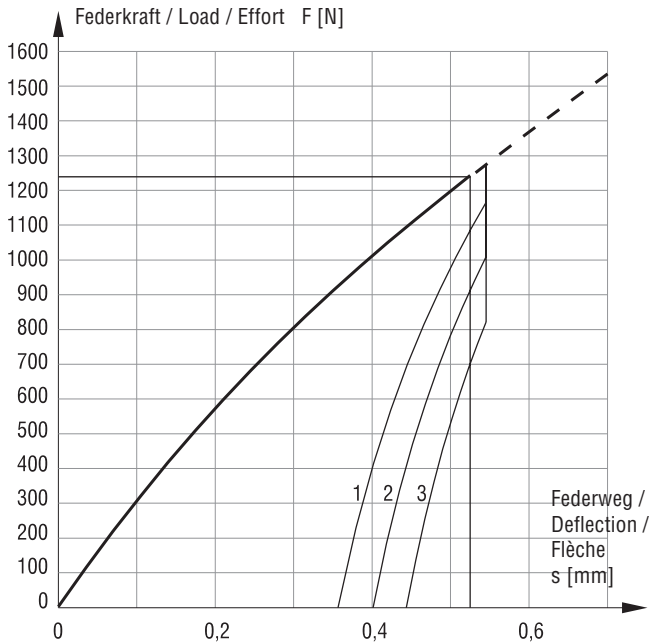
2,192 kg / 1000 St. / pcs



<b>23 x 8,2 x 0,9</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 007 600
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 23 D <sub>i</sub> = 8,2 t = 0,9 l <sub>0</sub> = 1,6 h <sub>0</sub> = 0,7
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,805 D <sub>e</sub> /t = 25,56 h <sub>0</sub> /t = 0,778
<b>Gewicht / weight / poids</b> 2,472 kg / 1000 St. / pcs



<b>23 x 8,2 x 1</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 007 700
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 23 D <sub>i</sub> = 8,2 t = 1,0 l <sub>0</sub> = 1,7 h <sub>0</sub> = 0,7
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,805 D <sub>e</sub> /t = 23 h <sub>0</sub> /t = 0,700
<b>Gewicht / weight / poids</b> 2,753 kg / 1000 St. / pcs



**23 x 10,2 x 0,9**

Schnorr Werksnorm  
Gruppe/Group/Groupe 1  
Art.Nr. 007 800

**Abmessungen /  
Dimensions [mm]**

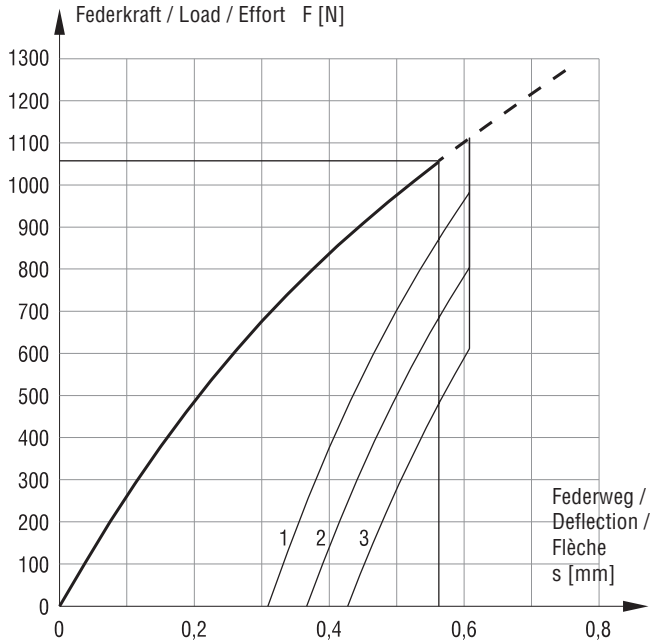
$D_e = 23$   
 $D_i = 10,2$   
 $t = 0,9$   
 $l_0 = 1,65$   
 $h_0 = 0,75$

**TF-Kennwerte /  
parameters / rapports**

$D_e/D_i = 2,255$   
 $D_e/t = 25,56$   
 $h_0/t = 0,833$

**Gewicht / weight / poids**

2,270 kg / 1000 St. / pcs



**23 x 10,2 x 1**

Schnorr Werksnorm  
Gruppe/Group/Groupe 1  
Art.Nr. 007 900

**Abmessungen /  
Dimensions [mm]**

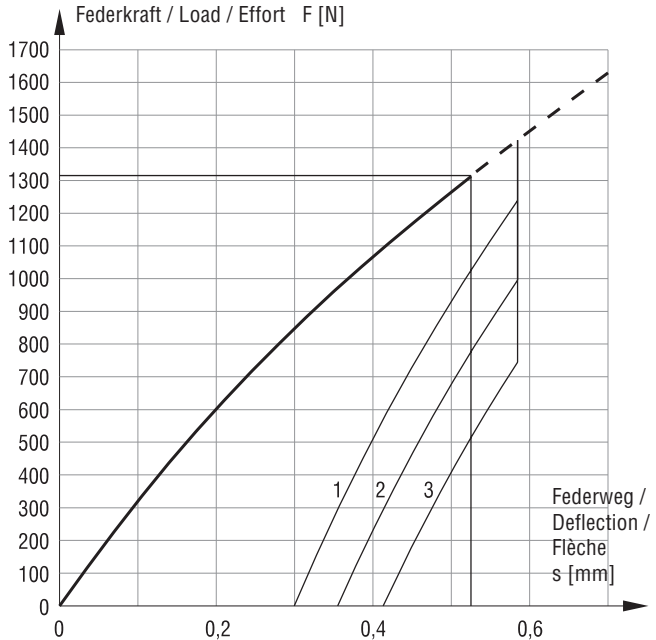
$D_e = 23$   
 $D_i = 10,2$   
 $t = 1,0$   
 $l_0 = 1,7$   
 $h_0 = 0,7$

**TF-Kennwerte /  
parameters / rapports**

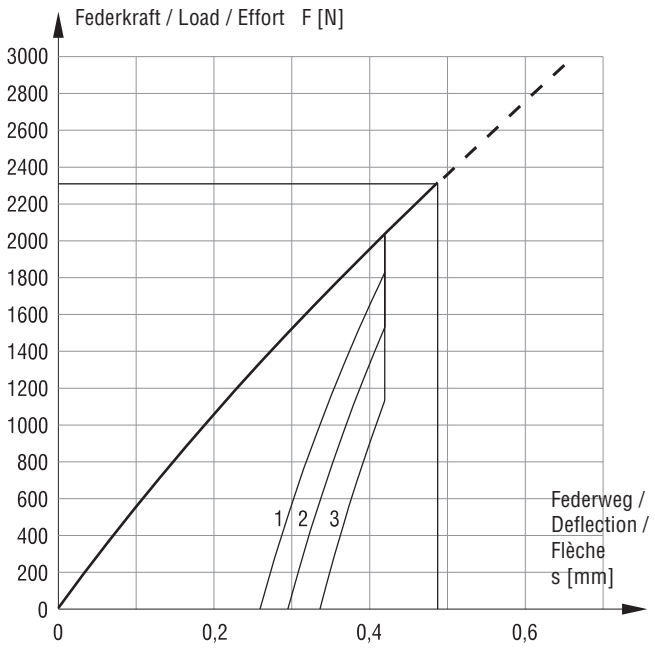
$D_e/D_i = 2,255$   
 $D_e/t = 23$   
 $h_0/t = 0,700$

**Gewicht / weight / poids**

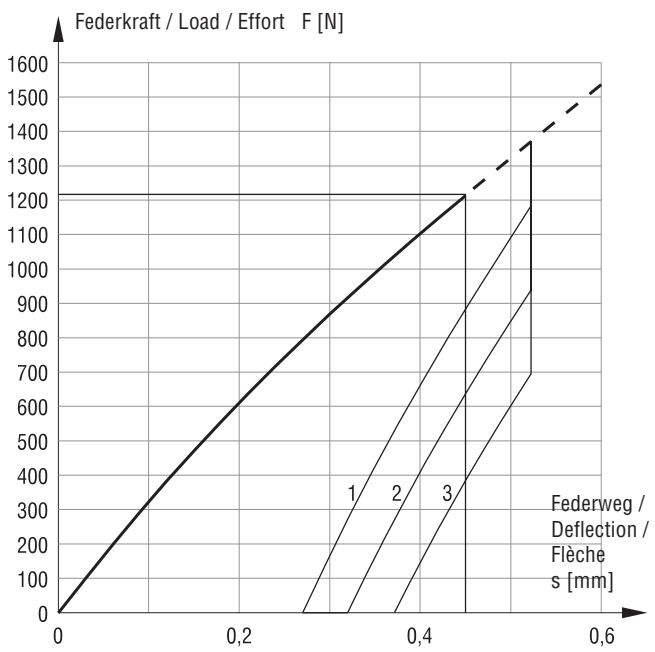
2,527 kg / 1000 St. / pcs



<b>23 x 10,2 x 1,25</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 008 000
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 23 D <sub>i</sub> = 10,2 t = 1,25 l <sub>0</sub> = 1,9 h <sub>0</sub> = 0,65
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,255 D <sub>e</sub> /t = 18,40 h <sub>0</sub> /t = 0,520
<b>Gewicht / weight / poids</b> 3,172 kg / 1000 St. / pcs



<b>23 x 12,2 x 1</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 008 100
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 23 D <sub>i</sub> = 12,2 t = 1,0 l <sub>0</sub> = 1,6 h <sub>0</sub> = 0,6
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,885 D <sub>e</sub> /t = 23 h <sub>0</sub> /t = 0,600
<b>Gewicht / weight / poids</b> 2,255 kg / 1000 St. / pcs



**23 x 12,2 x 1,25**

Schnorr Werksnorm  
Gruppe/Group/Groupe 2  
Art.Nr. 008 200

**Abmessungen /  
Dimensions [mm]**

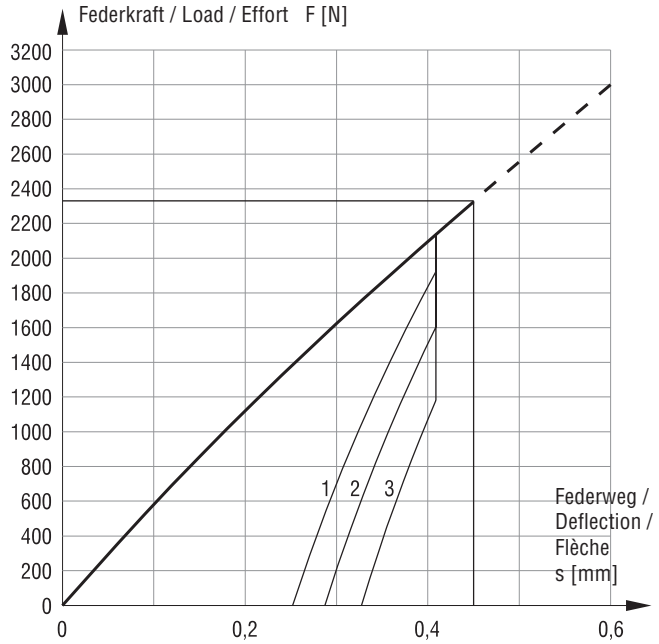
$D_e = 23$   
 $D_i = 12,2$   
 $t = 1,25$   
 $l_0 = 1,85$   
 $h_0 = 0,6$

**TF-Kennwerte /  
parameters / rapports**

$D_e/D_i = 1,885$   
 $D_e/t = 18,40$   
 $h_0/t = 0,480$

**Gewicht / weight / poids**

2,807kg / 1000 St. / pcs



**23 x 12,2 x 1,5**

Schnorr Werksnorm  
Gruppe/Group/Groupe 2  
Art.Nr. 008 350

**Abmessungen /  
Dimensions [mm]**

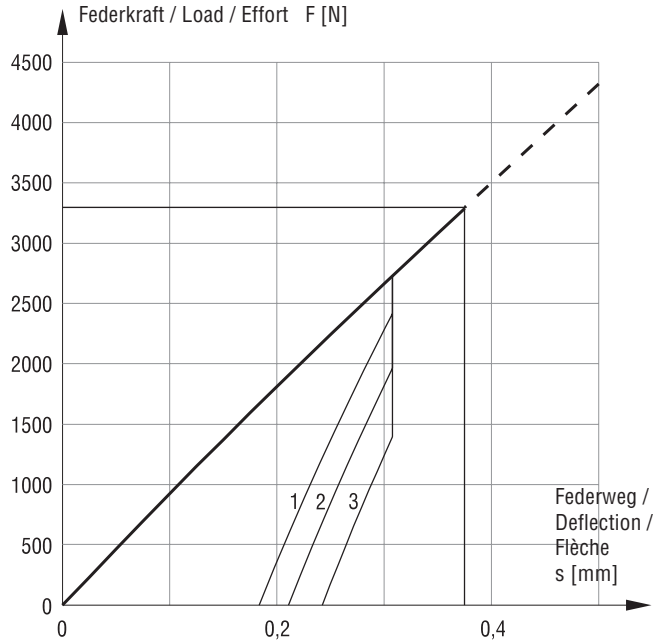
$D_e = 23$   
 $D_i = 12,2$   
 $t = 1,5$   
 $l_0 = 2,0$   
 $h_0 = 0,5$

**TF-Kennwerte /  
parameters / rapports**

$D_e/D_i = 1,885$   
 $D_e/t = 15,33$   
 $h_0/t = 0,333$

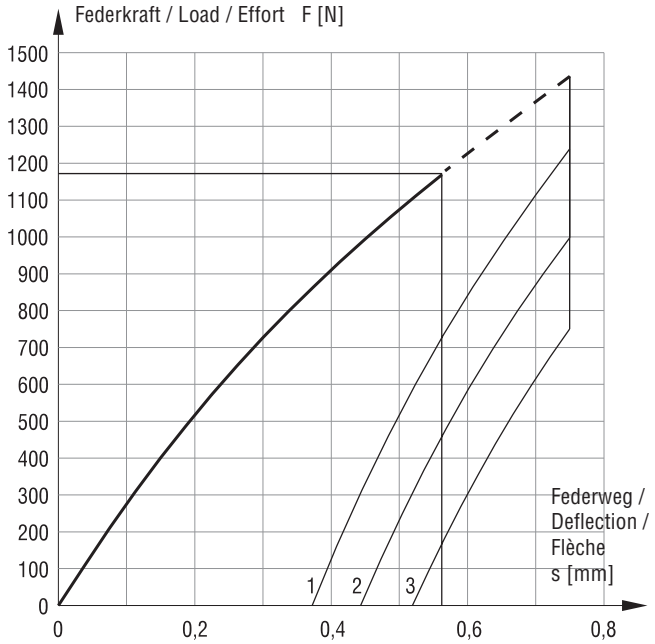
**Gewicht / weight / poids**

3,359 kg / 1000 St. / pcs

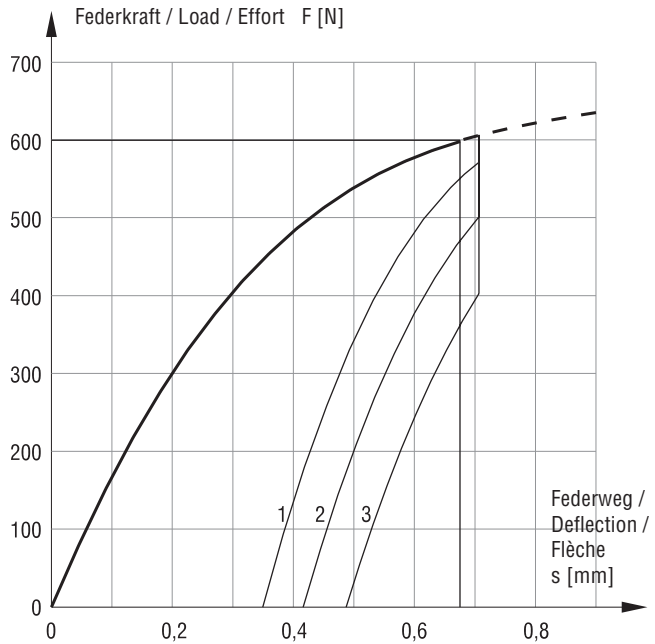




<b>25 x 10,2 x 1</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 008 600
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 25 D <sub>i</sub> = 10,2 t = 1,0 l <sub>0</sub> = 1,75 h <sub>0</sub> = 0,75
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,451 D <sub>e</sub> /t = 25 h <sub>0</sub> /t = 0,750
<b>Gewicht / weight / poids</b> 3,105kg / 1000 St. / pcs



<b>25 x 12,2 x 0,7</b>
DIN 2093 - C 25 Gruppe/Group/Groupe 1 Art.Nr. 008 700
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 25 D <sub>i</sub> = 12,2 t = 0,7 l <sub>0</sub> = 1,6 h <sub>0</sub> = 0,9
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,049 D <sub>e</sub> /t = 35,71 h <sub>0</sub> /t = 1,286
<b>Gewicht / weight / poids</b> 1,994 kg / 1000 St. /



**25 x 12,2 x 0,9**

DIN 2093 - B 25  
 Gruppe/Group/Groupe 1  
 Art.Nr. 008 800

**Abmessungen /  
 Dimensions [mm]**

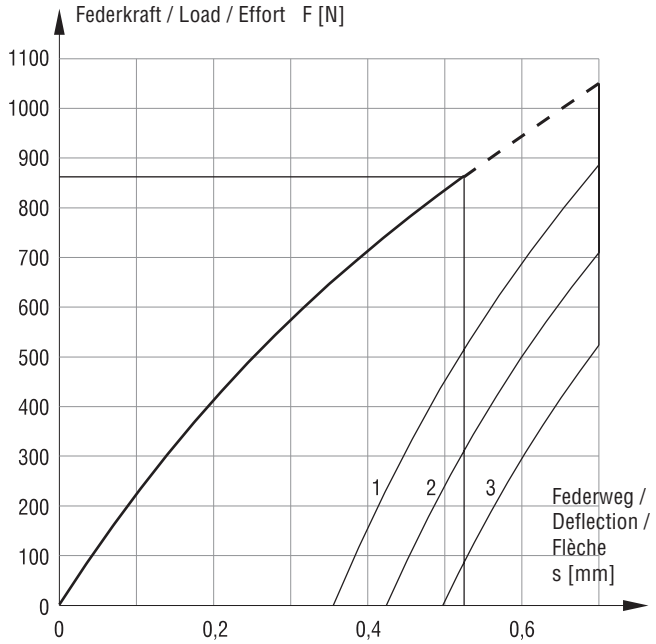
$D_e = 25$   
 $D_i = 12,2$   
 $t = 0,9$   
 $l_0 = 1,6$   
 $h_0 = 0,7$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,049$   
 $D_e/t = 27,78$   
 $h_0/t = 0,778$

**Gewicht / weight / poids**

2,543 kg / 1000 St. / pcs



**25 x 12,2 x 1**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 008 900

**Abmessungen /  
 Dimensions [mm]**

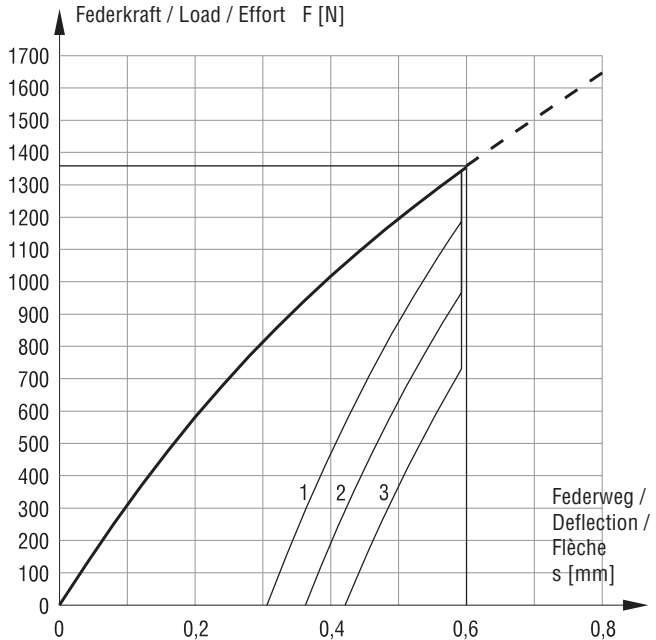
$D_e = 25$   
 $D_i = 12,2$   
 $t = 1,0$   
 $l_0 = 1,8$   
 $h_0 = 0,8$

**TF-Kennwerte /  
 parameters / rapports**

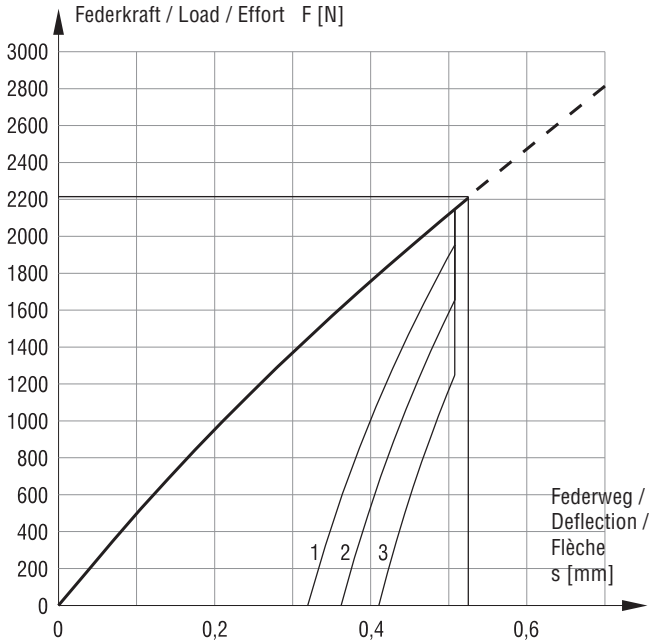
$D_e/D_i = 2,049$   
 $D_e/t = 25$   
 $h_0/t = 0,800$

**Gewicht / weight / poids**

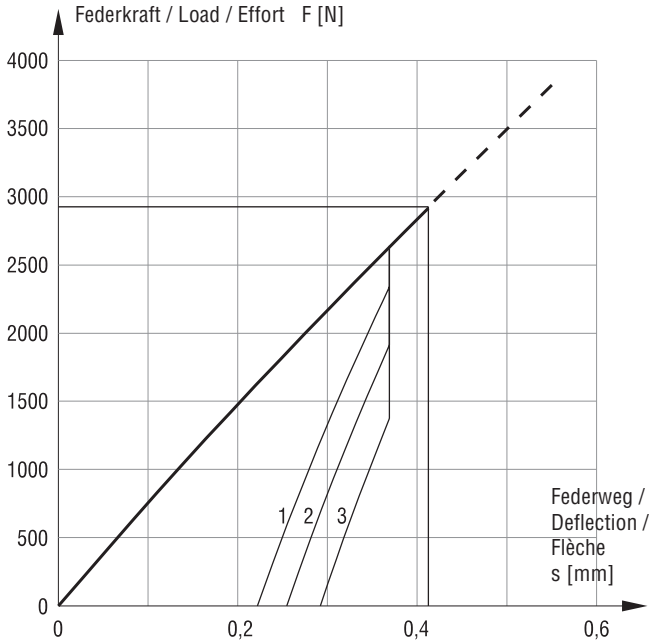
2,832 kg / 1000 St. / pcs



<b>25 x 12,2 x 1,25</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 009 000
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 25 D <sub>i</sub> = 12,2 t = 1,25 l <sub>0</sub> = 1,95 h <sub>0</sub> = 0,7
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,049 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,560
<b>Gewicht / weight / poids</b> 3,526 kg / 1000 St. / pcs



<b>25 x 12,2 x 1,5</b>
DIN 2093 - A 25 Gruppe/Group/Groupe 2 Art.Nr. 009 100
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 25 D <sub>i</sub> = 12,2 t = 1,5 l <sub>0</sub> = 2,05 h <sub>0</sub> = 0,55
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,049 D <sub>e</sub> /t = 16,67 h <sub>0</sub> /t = 0,367
<b>Gewicht / weight / poids</b> 4,219 kg / 1000 St. / pcs



**28 x 10,2 x 0,8**

Schnorr Werksnorm  
Gruppe/Group/Groupe 1  
Art.Nr. 009 200

**Abmessungen /  
Dimensions [mm]**

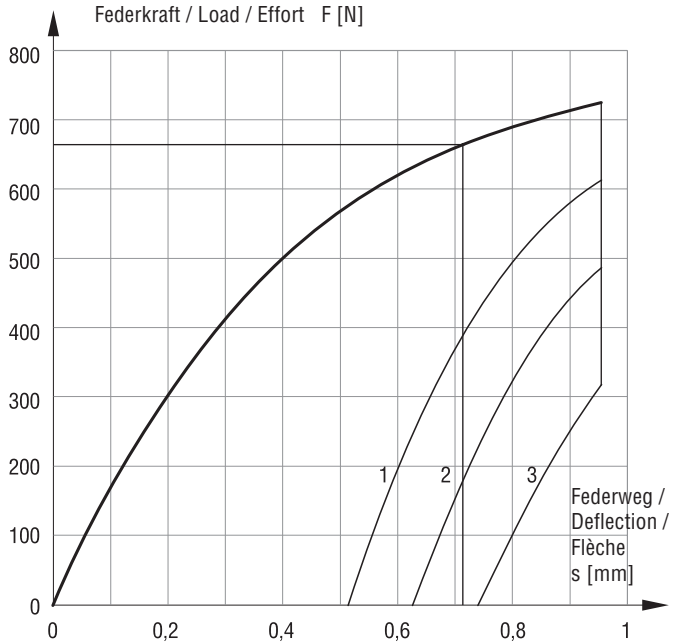
$D_e = 28$   
 $D_i = 10,2$   
 $t = 0,8$   
 $l_0 = 1,75$   
 $h_0 = 0,95$

**TF-Kennwerte /  
parameters / rapports**

$D_e/D_i = 2,745$   
 $D_e/t = 35$   
 $h_0/t = 1,188$

**Gewicht / weight / poids**

3,233 kg / 1000 St. / pcs



**28 x 10,2 x 1**

Schnorr Werksnorm  
Gruppe/Group/Groupe 1  
Art.Nr. 009 300

**Abmessungen /  
Dimensions [mm]**

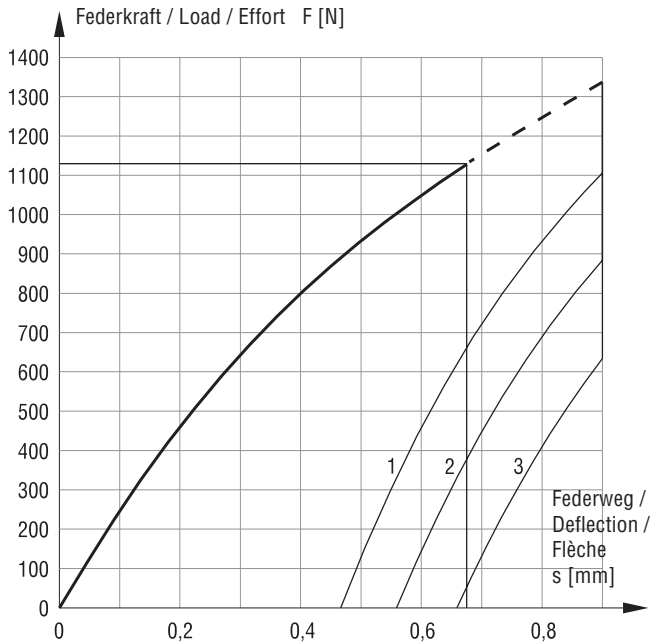
$D_e = 28$   
 $D_i = 10,2$   
 $t = 1,0$   
 $l_0 = 1,9$   
 $h_0 = 0,9$

**TF-Kennwerte /  
parameters / rapports**

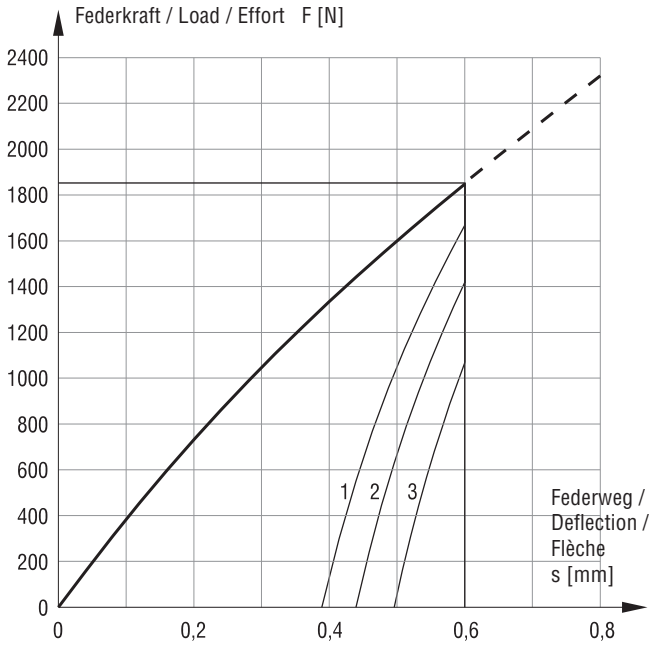
$D_e/D_i = 2,745$   
 $D_e/t = 28$   
 $h_0/t = 0,900$

**Gewicht / weight / poids**

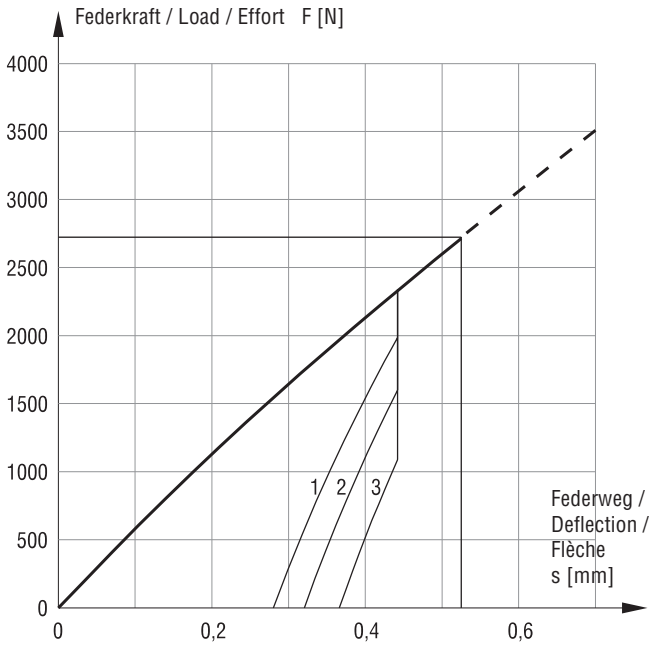
4,062 kg / 1000 St. / pcs



<b>28 x 10,2 x 1,25</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 009 400
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 28 D <sub>i</sub> = 10,2 t = 1,25 l <sub>0</sub> = 2,05 h <sub>0</sub> = 0,8
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,745 D <sub>e</sub> /t = 22,4 h <sub>0</sub> /t = 0,640
<b>Gewicht / weight / poids</b> 5,057 kg / 1000 St. / pcs



<b>28 x 10,2 x 1,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 009 500
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 28 D <sub>i</sub> = 10,2 t = 1,5 l <sub>0</sub> = 2,2 h <sub>0</sub> = 0,7
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,745 D <sub>e</sub> /t = 18,67 h <sub>0</sub> /t = 0,467
<b>Gewicht / weight / poids</b> 6,051 kg / 1000 St. / pcs



**28 x 12,2 x 1**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 1  
 Art.Nr. 009 600

**Abmessungen /  
 Dimensions [mm]**

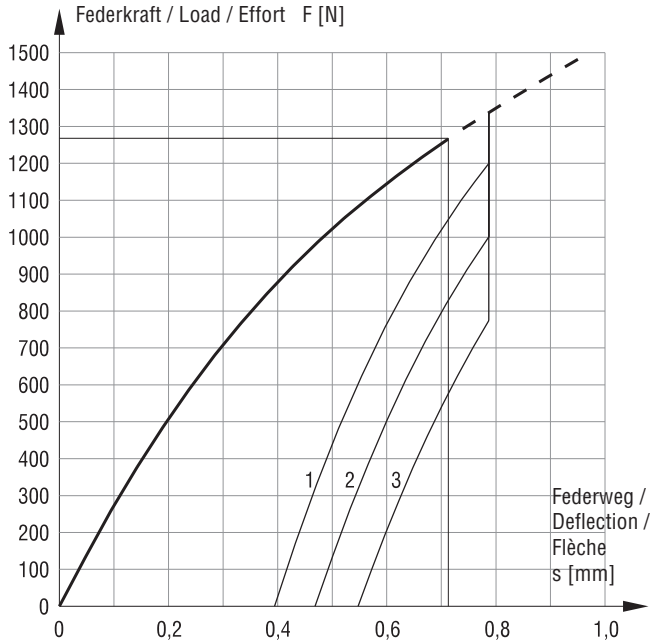
$D_e = 28$   
 $D_i = 12,2$   
 $t = 1,0$   
 $l_0 = 1,95$   
 $h_0 = 0,95$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,295$   
 $D_e/t = 28$   
 $h_0/t = 0,950$

**Gewicht / weight / poids**

3,789kg / 1000 St. / pcs



**28 x 12,2 x 1,25**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 009 700

**Abmessungen /  
 Dimensions [mm]**

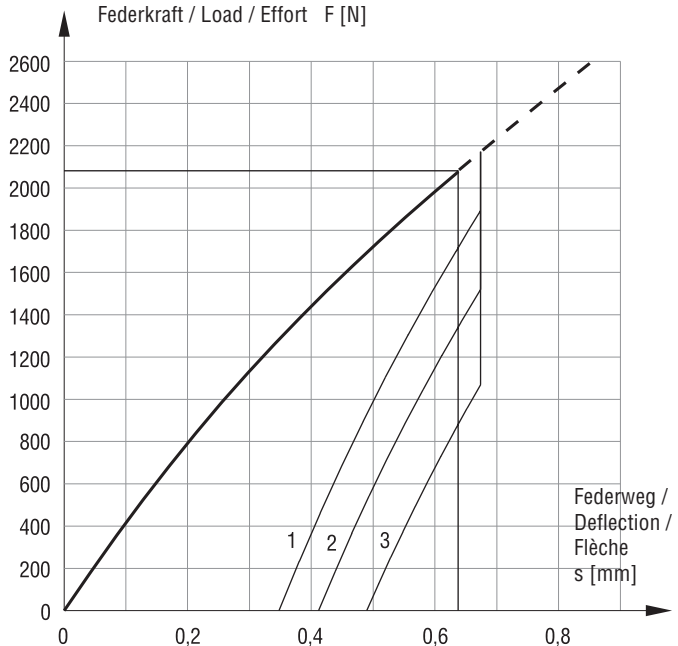
$D_e = 28$   
 $D_i = 12,2$   
 $t = 1,25$   
 $l_0 = 2,1$   
 $h_0 = 0,85$

**TF-Kennwerte /  
 parameters / rapports**

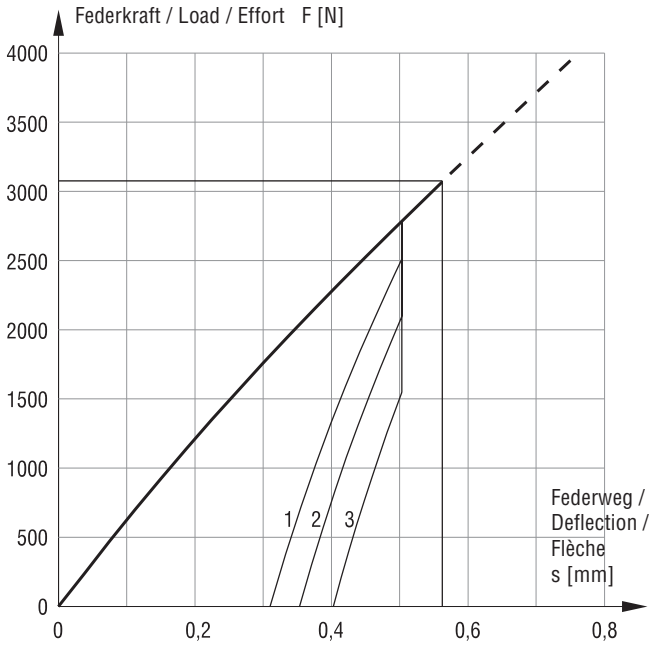
$D_e/D_i = 2,295$   
 $D_e/t = 22,4$   
 $h_0/t = 0,680$

**Gewicht / weight / poids**

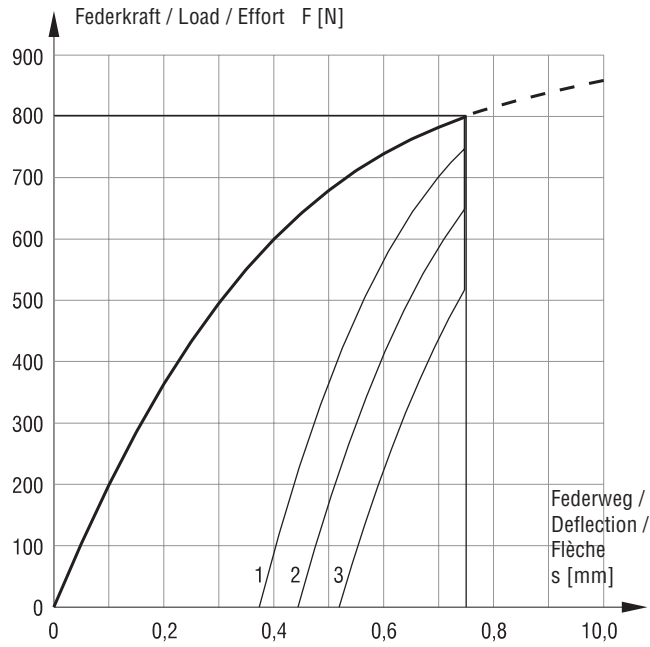
4,717 kg / 1000 St. / pcs



<b>28 x 12,2 x 1,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 009 800
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 28 D <sub>i</sub> = 12,2 t = 1,5 l <sub>0</sub> = 2,25 h <sub>0</sub> = 0,75
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,295 D <sub>e</sub> /t = 18,67 h <sub>0</sub> /t = 0,500
<b>Gewicht / weight / poids</b> 5,645 kg / 1000 St. / pcs



<b>28 x 14,2 x 0,8</b>
DIN 2093 - C 28 Gruppe/Group/Groupe 1 Art.Nr. 009 900
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 28 D <sub>i</sub> = 14,2 t = 0,8 l <sub>0</sub> = 1,8 h <sub>0</sub> = 1,0
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,972 D <sub>e</sub> /t = 35 h <sub>0</sub> /t = 1,250
<b>Gewicht / weight / poids</b> 2,760 kg / 1000 St. / pcs



**28 x 14,2 x 1**

DIN 2093 - B28  
 Gruppe/Group/Groupe 1  
 Art.Nr. 010 000

**Abmessungen /  
 Dimensions [mm]**

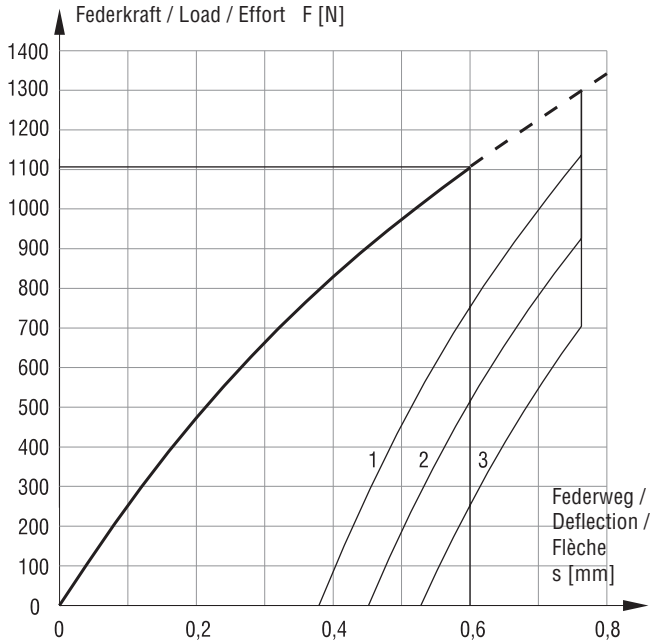
$D_e = 28$   
 $D_i = 14,2$   
 $t = 1,0$   
 $l_0 = 1,8$   
 $h_0 = 0,8$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,972$   
 $D_e/t = 28$   
 $h_0/t = 0,800$

**Gewicht / weight / poids**

3,468 kg / 1000 St. / pcs



**28 x 14,2 x 1,25**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 010 100

**Abmessungen /  
 Dimensions [mm]**

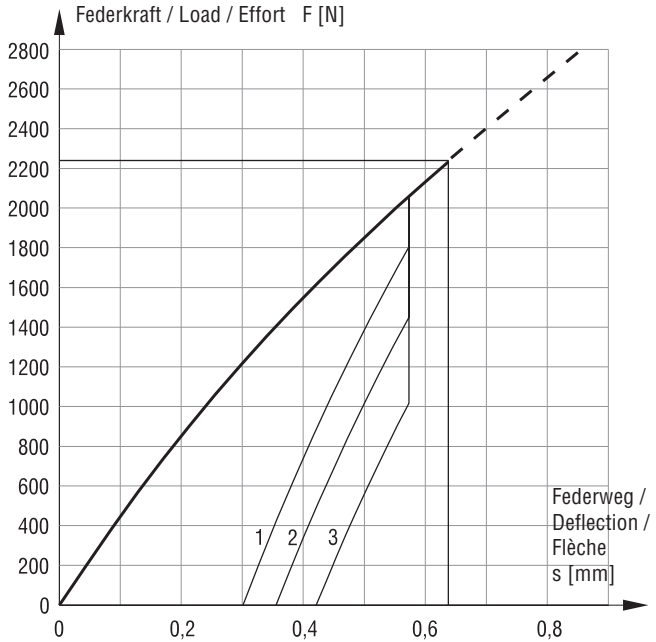
$D_e = 28$   
 $D_i = 14,2$   
 $t = 1,25$   
 $l_0 = 2,1$   
 $h_0 = 0,85$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,972$   
 $D_e/t = 22,4$   
 $h_0/t = 0,680$

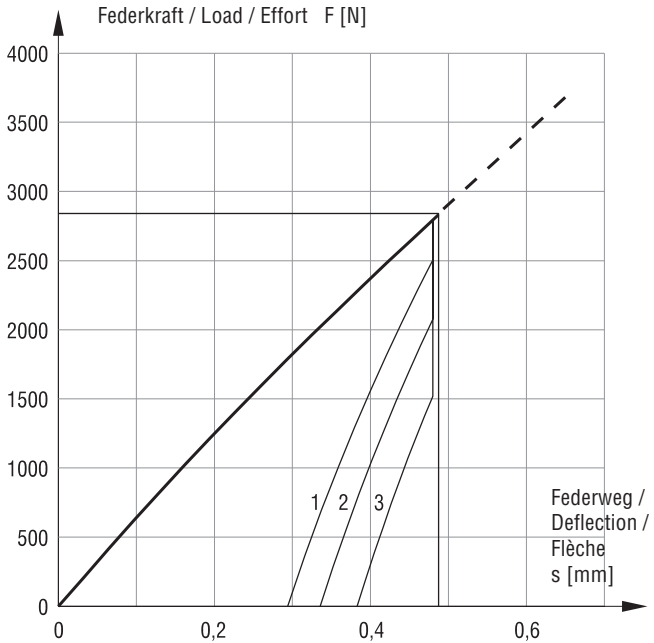
**Gewicht / weight / poids**

4,317 kg / 1000 St. / pcs

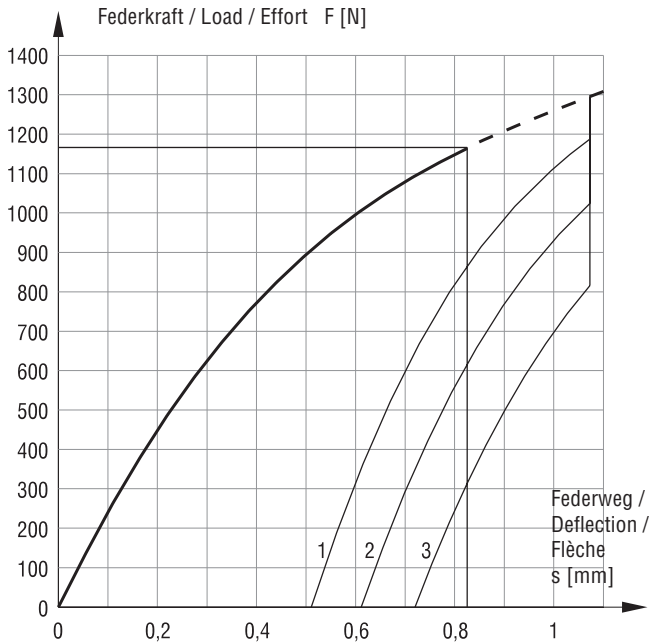




<b>28 x 14,2 x 1,5</b>
DIN 2093 - A 28 Gruppe/Group/Groupe 2 Art.Nr. 010 200
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 28 D <sub>i</sub> = 14,2 t = 1,5 l <sub>0</sub> = 2,15 h <sub>0</sub> = 0,65
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,972 D <sub>e</sub> /t = 18,67 h <sub>0</sub> /t = 0,433
<b>Gewicht / weight / poids</b> 5,166 kg / 1000 St. / pcs



<b>31,5 x 12,2 x 1</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 010 300
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 31,5 D <sub>i</sub> = 12,2 t = 1,0 l <sub>0</sub> = 2,1 h <sub>0</sub> = 1,1
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,582 D <sub>e</sub> /t = 31,5 h <sub>0</sub> /t = 1,100
<b>Gewicht / weight / poids</b> 5,035 kg / 1000 St. / pcs



**31,5 x 12,2 x 1,25**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 010 400

**Abmessungen /  
 Dimensions [mm]**

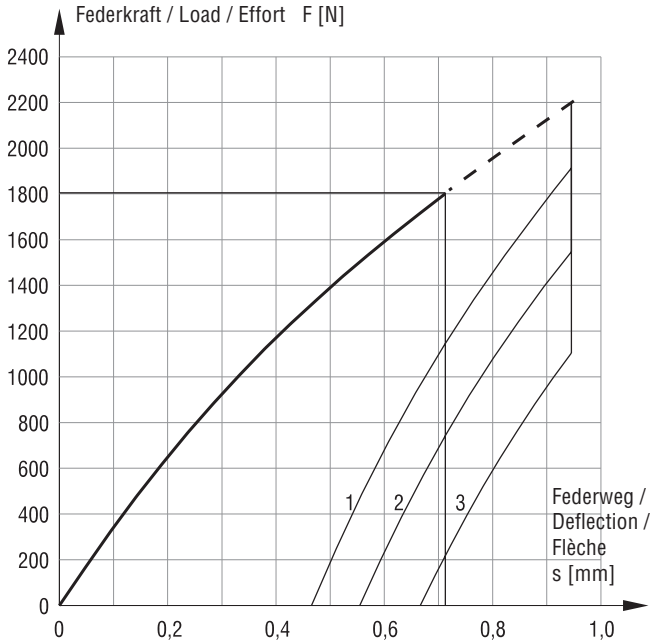
$D_e = 31,5$   
 $D_i = 12,2$   
 $t = 1,25$   
 $l_0 = 2,2$   
 $h_0 = 0,95$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,582$   
 $D_e/t = 25,2$   
 $h_0/t = 0,760$

**Gewicht / weight / poids**

6,268 kg / 1000 St. / pcs



**31,5 x 12,2 x 1,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 010 500

**Abmessungen /  
 Dimensions [mm]**

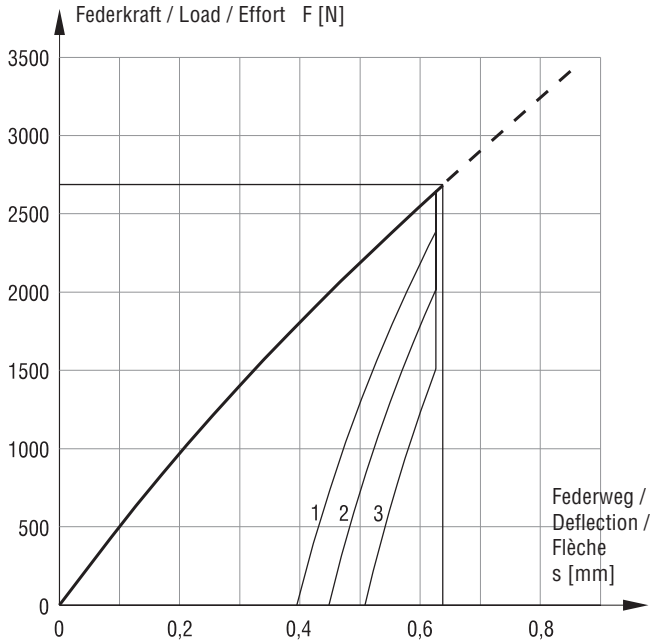
$D_e = 31,5$   
 $D_i = 12,2$   
 $t = 1,5$   
 $l_0 = 2,35$   
 $h_0 = 0,85$

**TF-Kennwerte /  
 parameters / rapports**

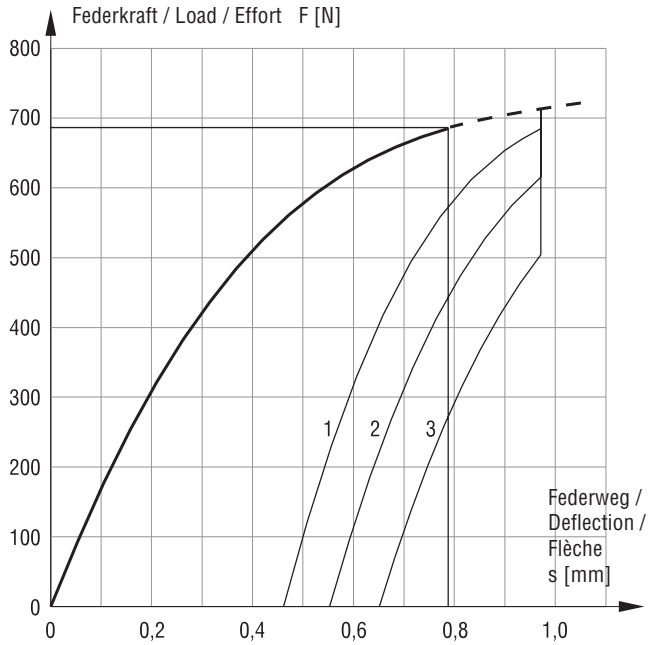
$D_e/D_i = 2,582$   
 $D_e/t = 21$   
 $h_0/t = 0,567$

**Gewicht / weight / poids**

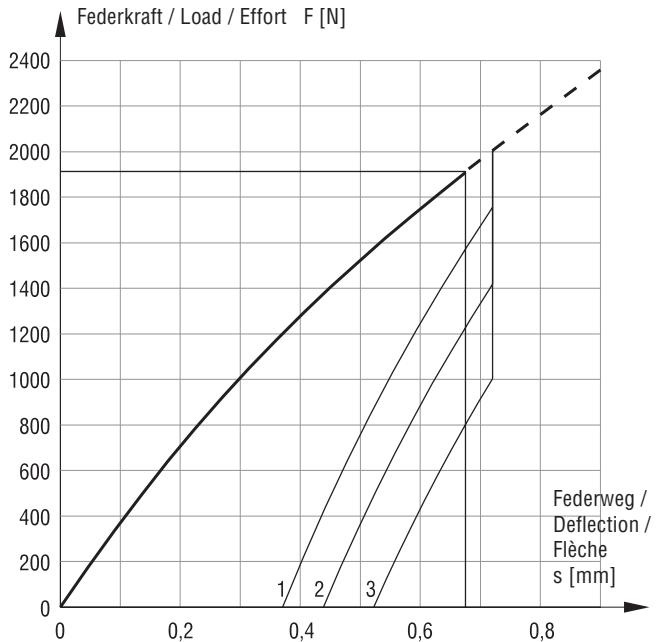
7,501 kg / 1000 St. / pcs



<b>31,5 x 16,3 x 0,8</b>
DIN 2093 - C 31,5 Gruppe/Group/Groupe 1 Art.Nr. 010 650
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 31,5 D <sub>i</sub> = 16,3 t = 0,8 l <sub>0</sub> = 1,85 h <sub>0</sub> = 1,05
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,933 D <sub>e</sub> /t = 39,38 h <sub>0</sub> /t = 1,313
<b>Gewicht / weight / poids</b> 3,442 kg / 1000 St. / pcs



<b>31,5 x 16,3 x 1,25</b>
DIN 2093 - B 31,5 Gruppe/Group/Groupe 2 Art.Nr. 010 700
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 31,5 D <sub>i</sub> = 16,3 t = 1,25 l <sub>0</sub> = 2,15 h <sub>0</sub> = 0,9
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,933 D <sub>e</sub> /t = 25,2 h <sub>0</sub> /t = 0,720
<b>Gewicht / weight / poids</b> 5,384 kg / 1000 St. / pcs



**31,5 x 16,3 x 1,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 010 800

**Abmessungen /  
 Dimensions [mm]**

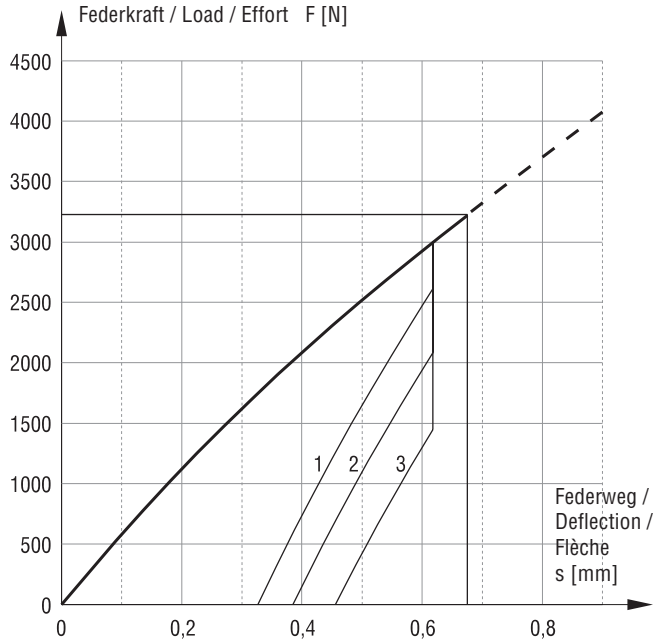
$D_e = 31,5$   
 $D_i = 16,3$   
 $t = 1,5$   
 $l_0 = 2,4$   
 $h_0 = 0,9$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,933$   
 $D_e/t = 21$   
 $h_0/t = 0,600$

**Gewicht / weight / poids**

6,443 kg / 1000 St. / pcs



**31,5 x 16,3 x 1,75**

DIN 2093 - A 31,5  
 Gruppe/Group/Groupe 2  
 Art.Nr. 010 900

**Abmessungen /  
 Dimensions [mm]**

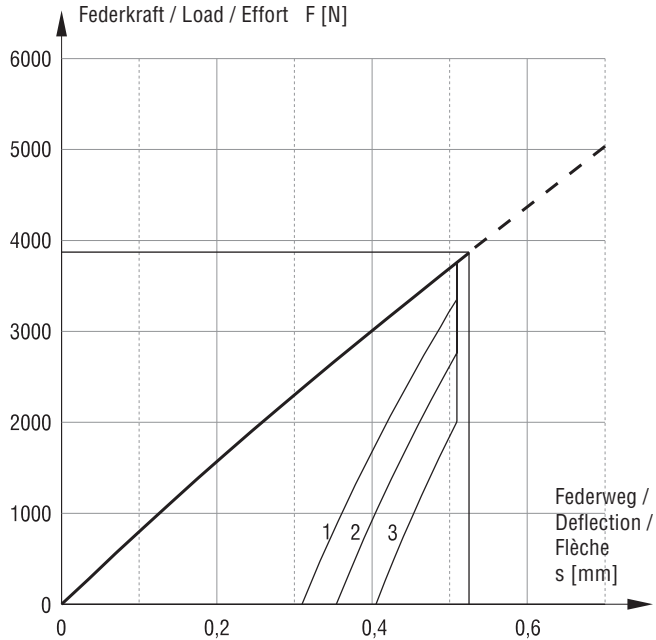
$D_e = 31,5$   
 $D_i = 16,3$   
 $t = 1,75$   
 $l_0 = 2,45$   
 $h_0 = 0,7$

**TF-Kennwerte /  
 parameters / rapports**

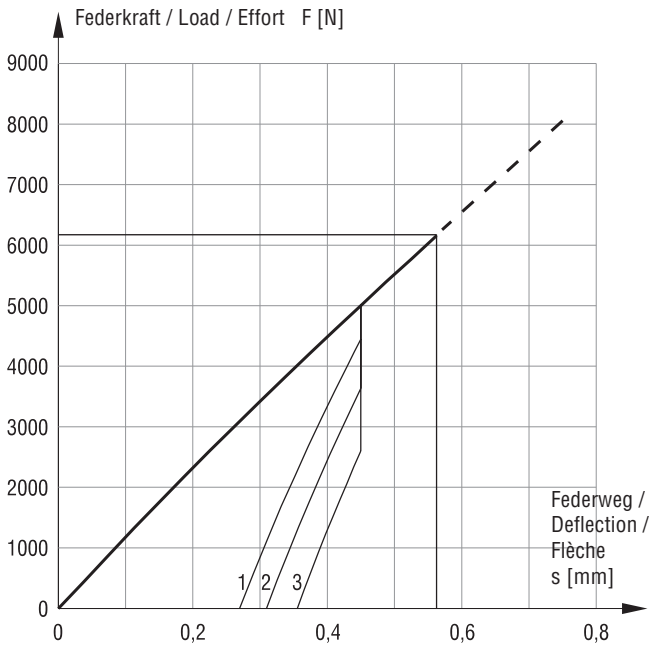
$D_e/D_i = 1,933$   
 $D_e/t = 18$   
 $h_0/t = 0,400$

**Gewicht / weight / poids**

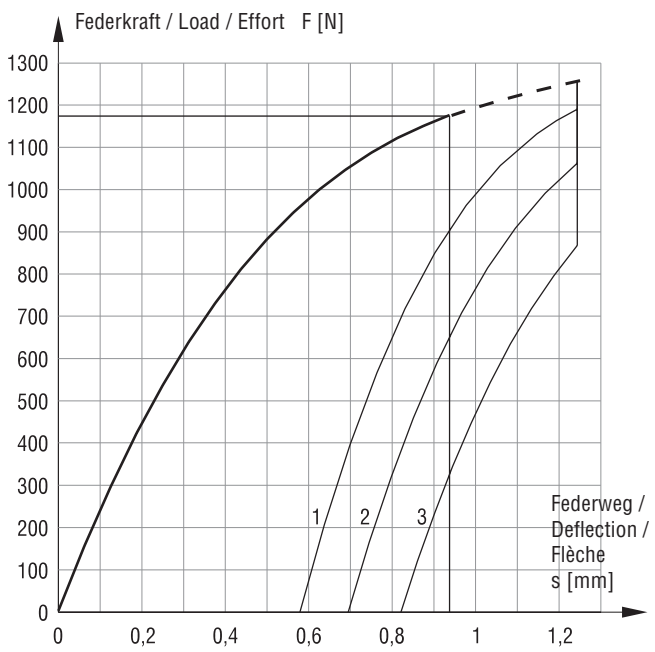
7,546 kg / 1000 St. / pcs



<b>31,5 x 16,3 x 2</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 011 000
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 31,5 D <sub>i</sub> = 16,3 t = 2,0 l <sub>0</sub> = 2,75 h <sub>0</sub> = 0,75
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,933 D <sub>e</sub> /t = 15,75 h <sub>0</sub> /t = 0,375
<b>Gewicht / weight / poids</b> 8,605 kg / 1000 St. / pcs



<b>34 x 12,3 x 1</b>
Schnorr Werksnorm Gruppe/Group/Groupe 1 Art.Nr. 011 100
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 34 D <sub>i</sub> = 12,3 t = 1,0 l <sub>0</sub> = 2,25 h <sub>0</sub> = 1,25
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,764 D <sub>e</sub> /t = 34 h <sub>0</sub> /t = 1,250
<b>Gewicht / weight / poids</b> 6,006 kg / 1000 St. / pcs



**34 x 12,3 x 1,25**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 011 200

**Abmessungen /  
 Dimensions [mm]**

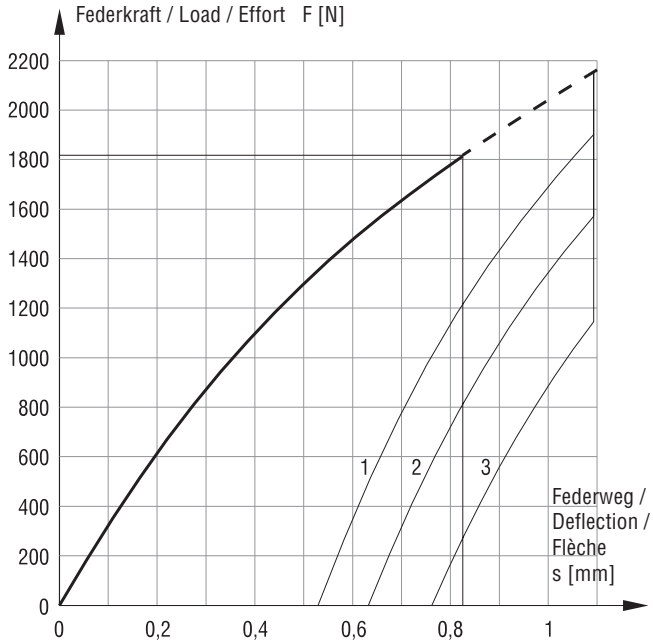
$D_e = 34$   
 $D_i = 12,3$   
 $t = 1,25$   
 $l_0 = 2,35$   
 $h_0 = 1,1$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,764$   
 $D_e/t = 27,2$   
 $h_0/t = 0,880$

**Gewicht / weight / poids**

7,477 kg / 1000 St. / pcs



**34 x 12,3 x 1,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 011 300

**Abmessungen /  
 Dimensions [mm]**

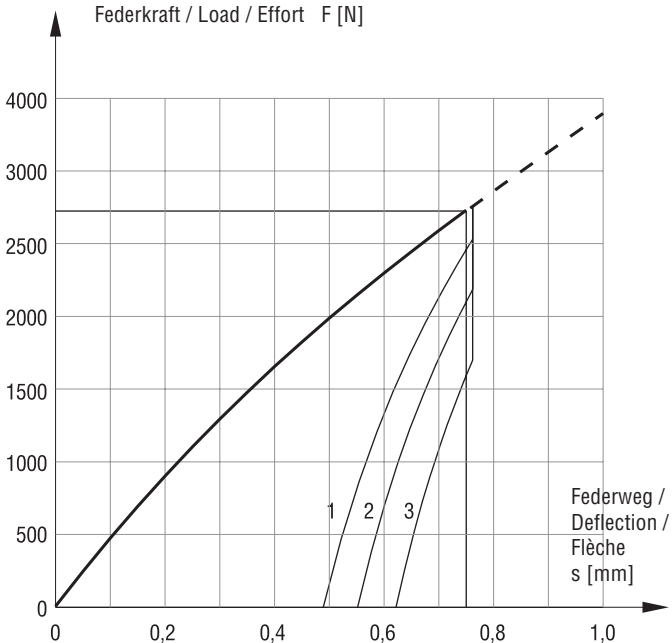
$D_e = 34$   
 $D_i = 12,3$   
 $t = 1,5$   
 $l_0 = 2,5$   
 $h_0 = 1,0$

**TF-Kennwerte /  
 parameters / rapports**

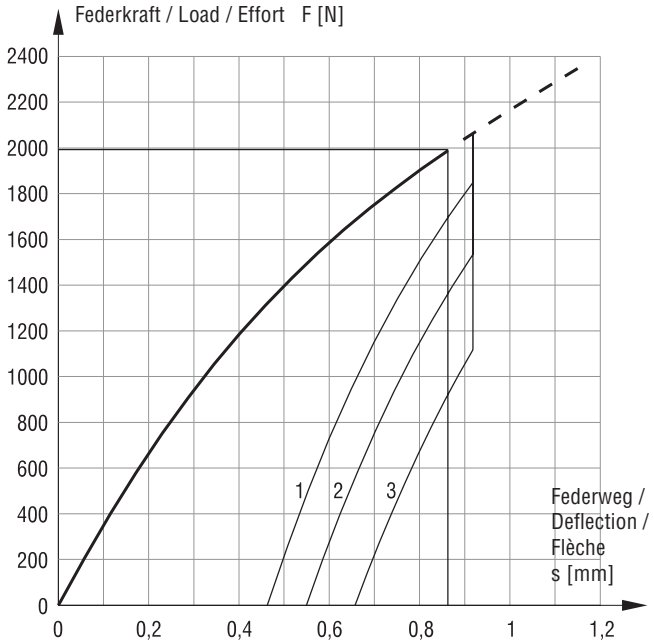
$D_e/D_i = 2,764$   
 $D_e/t = 22,67$   
 $h_0/t = 0,667$

**Gewicht / weight / poids**

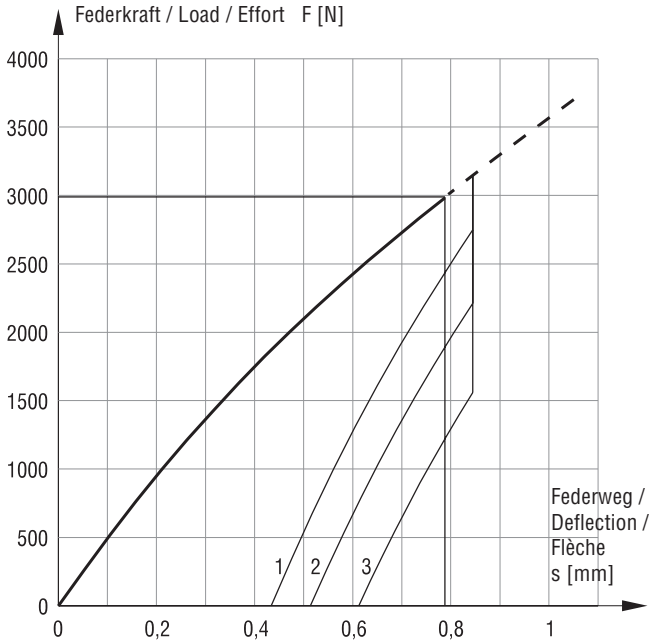
8,948 kg / 1000 St. / pcs



<b>34 x 14,3 x 1,25</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 011 400
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 34 D <sub>i</sub> = 14,3 t = 1,25 l <sub>0</sub> = 2,4 h <sub>0</sub> = 1,15
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,378 D <sub>e</sub> /t = 27,20 h <sub>0</sub> /t = 0,920
<b>Gewicht / weight / poids</b> 7,074 kg / 1000 St. / pcs



<b>34 x 14,3 x 1,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 011 500
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 34 D <sub>i</sub> = 14,3 t = 1,5 l <sub>0</sub> = 2,55 h <sub>0</sub> = 1,05
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,378 D <sub>e</sub> /t = 22,67 h <sub>0</sub> /t = 0,700
<b>Gewicht / weight / poids</b> 8,465 kg / 1000 St. / pcs



**34 x 16,3 x 1,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 011 600

**Abmessungen /  
 Dimensions [mm]**

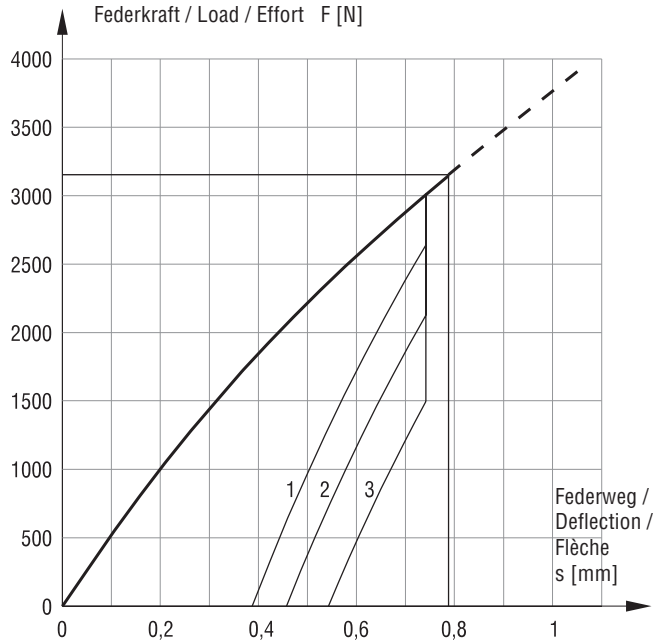
$D_e = 34$   
 $D_i = 16,3$   
 $t = 1,5$   
 $l_0 = 2,55$   
 $h_0 = 1,05$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,086$   
 $D_e/t = 22,67$   
 $h_0/t = 0,700$

**Gewicht / weight / poids**

7,911 kg / 1000 St. / pcs



**34 x 16,3 x 2**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 011 700

**Abmessungen /  
 Dimensions [mm]**

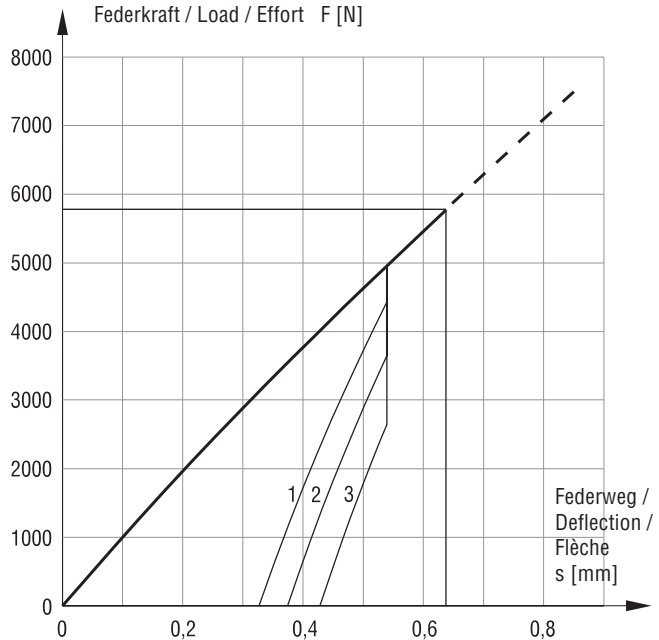
$D_e = 34$   
 $D_i = 16,3$   
 $t = 2,0$   
 $l_0 = 2,85$   
 $h_0 = 0,85$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,086$   
 $D_e/t = 17$   
 $h_0/t = 0,425$

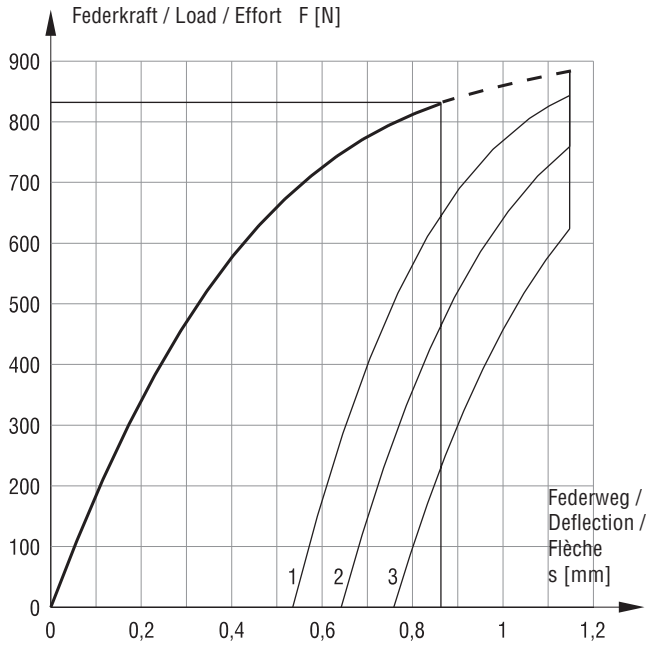
**Gewicht / weight / poids**

10,57 kg / 1000 St. / pcs

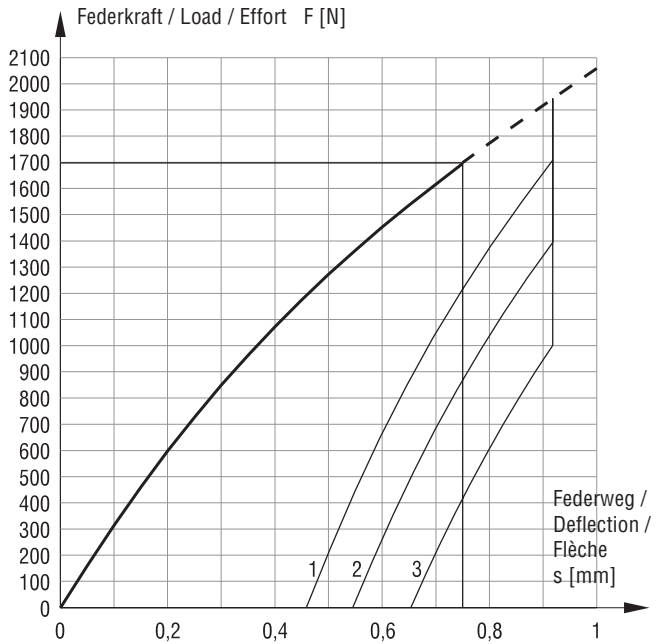




<b>35,5 x 18,3 x 0,9</b>
DIN 2093 - C 35,5 Gruppe/Group/Groupe 1 Art.Nr. 011 850
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 35,5 D <sub>i</sub> = 18,3 t = 0,9 l <sub>0</sub> = 2,05 h <sub>0</sub> = 1,15
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,940 D <sub>e</sub> /t = 39,44 h <sub>0</sub> /t = 1,278
<b>Gewicht / weight / poids</b> 4,952 kg / 1000 St. / pcs



<b>35,5 x 18,3 x 1,25</b>
DIN 2093 - B 35,5 Gruppe/Group/Groupe 2 Art.Nr. 011 900
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 35,5 D <sub>i</sub> = 18,3 t = 1,25 l <sub>0</sub> = 2,25 h <sub>0</sub> = 1,0
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,940 D <sub>e</sub> /t = 28,4 h <sub>0</sub> /t = 0,800
<b>Gewicht / weight / poids</b> 6,865 kg / 1000 St. / pcs



**35,5 x 18,3 x 2**

DIN 2093 - A 35,5  
 Gruppe/Group/Groupe 2  
 Art.Nr. 012 000

**Abmessungen /  
 Dimensions [mm]**

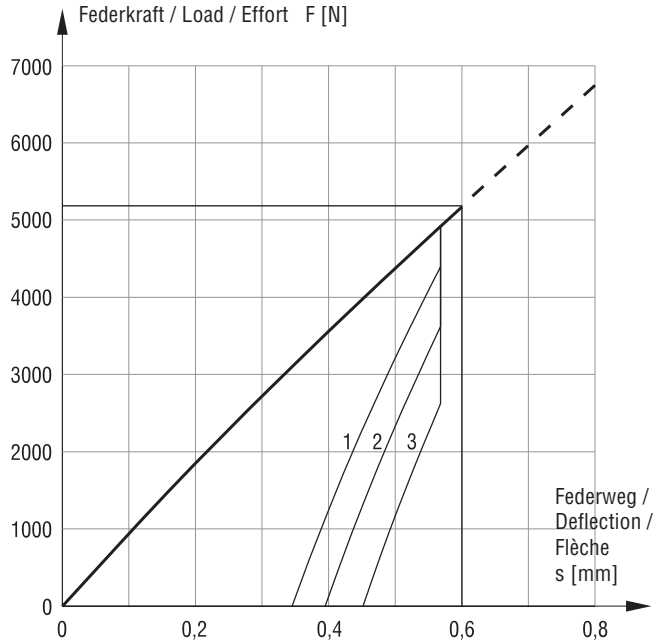
$D_e = 35,5$   
 $D_i = 18,3$   
 $t = 2,0$   
 $l_0 = 2,8$   
 $h_0 = 0,8$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,940$   
 $D_e/t = 17,75$   
 $h_0/t = 0,400$

**Gewicht / weight / poids**

10,97 kg / 1000 St. / pcs



**40 x 14,3 x 1,25**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 012 100

**Abmessungen /  
 Dimensions [mm]**

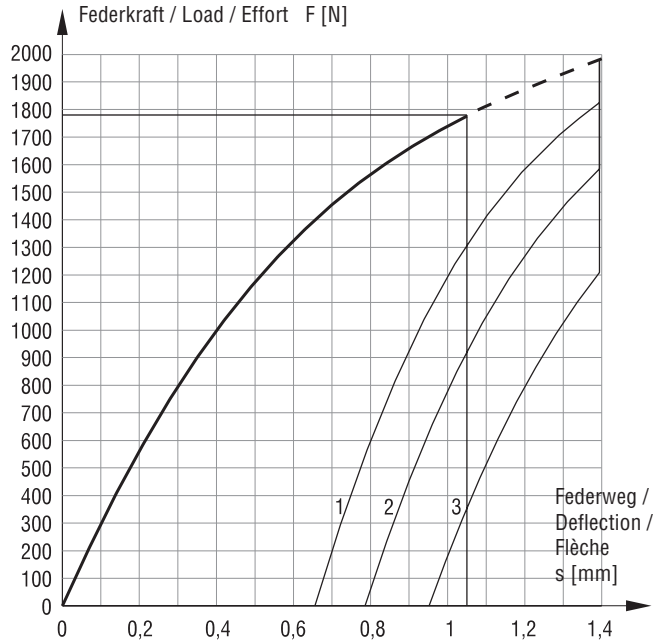
$D_e = 40$   
 $D_i = 14,3$   
 $t = 1,25$   
 $l_0 = 2,65$   
 $h_0 = 1,4$

**TF-Kennwerte /  
 parameters / rapports**

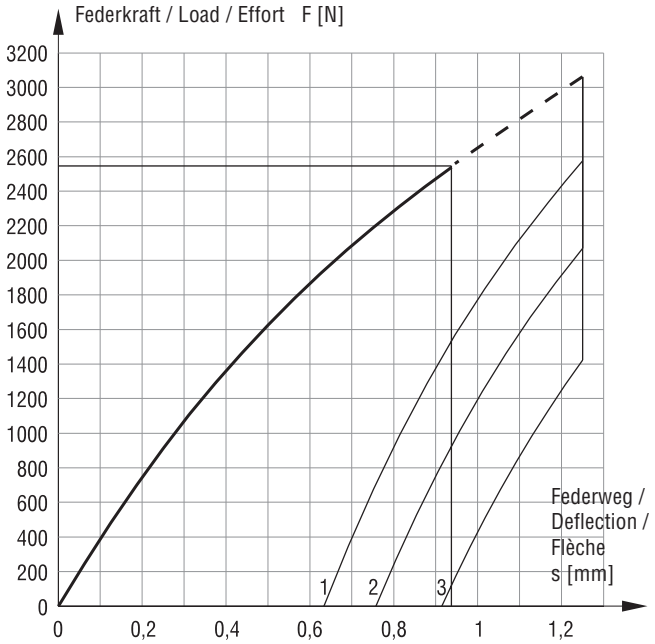
$D_e/D_i = 2,797$   
 $D_e/t = 32$   
 $h_0/t = 1,120$

**Gewicht / weight / poids**

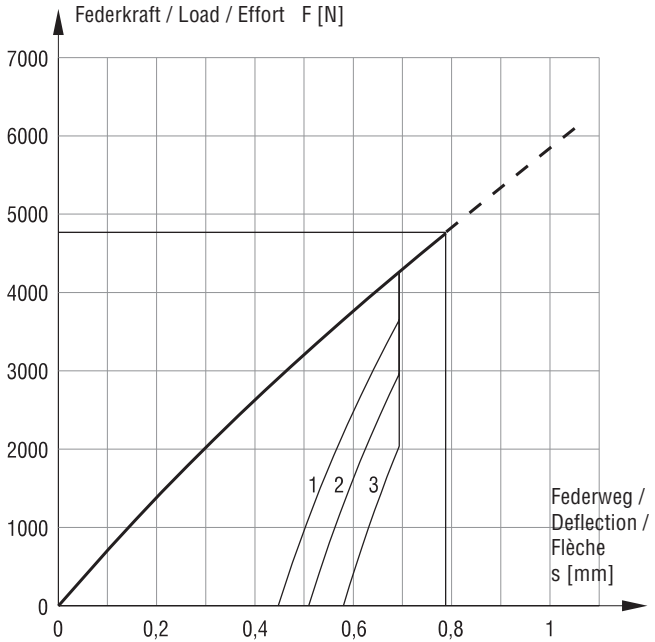
10,40 kg / 1000 St. / pcs



<b>40 x 14,3 x 1,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 012 200
<b>Abmessungen / Dimensions [mm]</b> $D_e = 40$ $D_i = 14,3$ $t = 1,5$ $l_0 = 2,75$ $h_0 = 1,25$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,797$ $D_e/t = 26,67$ $h_0/t = 0,833$
<b>Gewicht / weight / poids</b> 12,45 kg / 1000 St. / pcs



<b>40 x 14,3 x 2</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 012 300
<b>Abmessungen / Dimensions [mm]</b> $D_e = 40$ $D_i = 14,3$ $t = 2,0$ $l_0 = 3,05$ $h_0 = 1,05$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,797$ $D_e/t = 20$ $h_0/t = 0,525$
<b>Gewicht / weight / poids</b> 16,63 kg / 1000 St. / pcs



**40 x 16,3 x 1,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 012 400

**Abmessungen /  
 Dimensions [mm]**

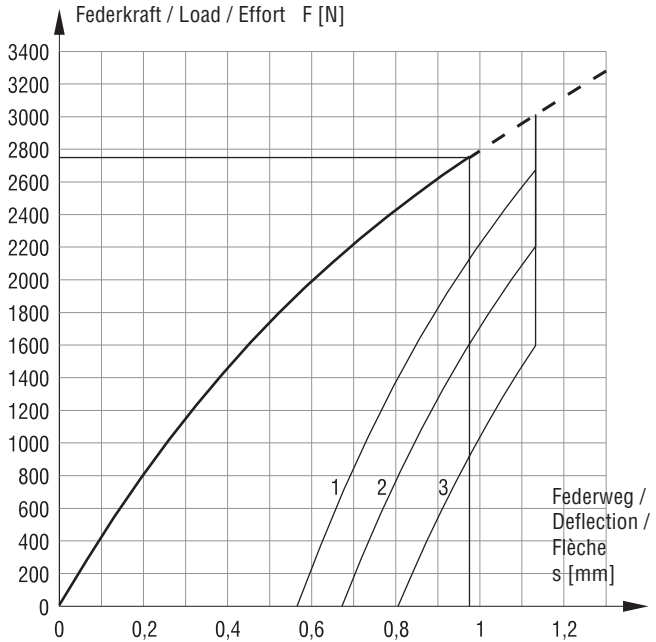
$D_e = 40$   
 $D_i = 16,3$   
 $t = 1,5$   
 $l_0 = 2,8$   
 $h_0 = 1,3$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,454$   
 $D_e/t = 26,67$   
 $h_0/t = 0,867$

**Gewicht / weight / poids**

11,89 kg / 1000 St. / pcs



**40 x 16,3 x 2**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 012 500

**Abmessungen /  
 Dimensions [mm]**

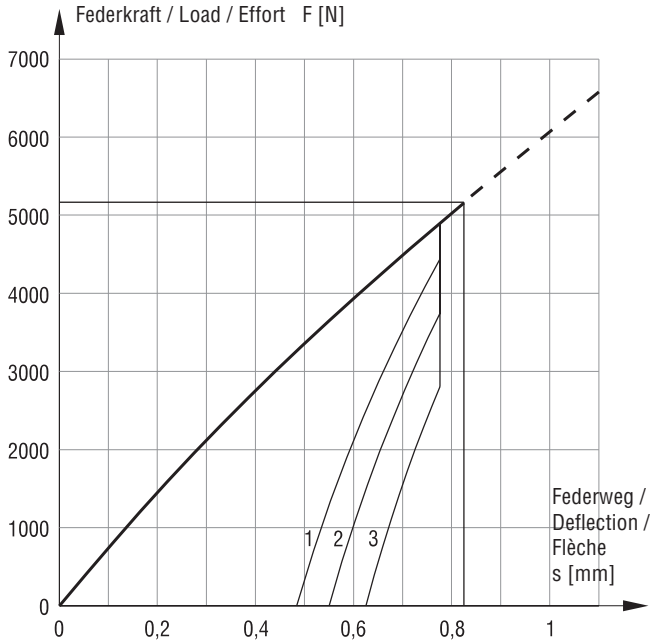
$D_e = 40$   
 $D_i = 16,3$   
 $t = 2,0$   
 $l_0 = 3,1$   
 $h_0 = 1,1$

**TF-Kennwerte /  
 parameters / rapports**

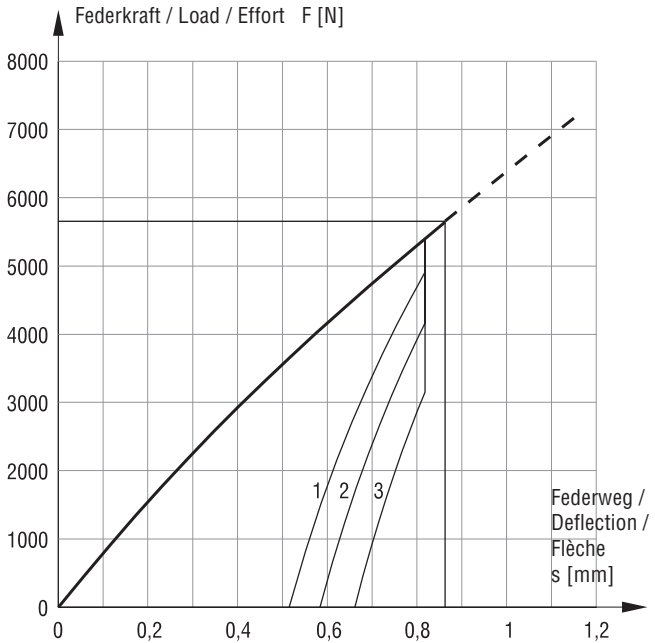
$D_e/D_i = 2,454$   
 $D_e/t = 20$   
 $h_0/t = 0,550$

**Gewicht / weight / poids**

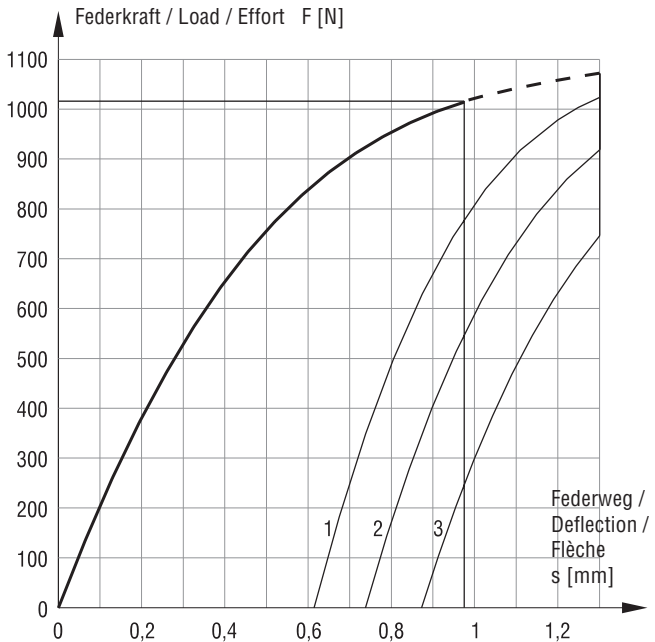
15,89 kg / 1000 St. / pcs



<b>40 x 18,3 x 2</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 012 600
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 40 D <sub>i</sub> = 18,3 t = 2,0 l <sub>0</sub> = 3,15 h <sub>0</sub> = 1,15
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,186 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,575
<b>Gewicht / weight / poids</b> 15,04 kg / 1000 St. / pcs



<b>40 x 20,4 x 1</b>
DIN 2093 - C 40 Gruppe/Group/Groupe 1 Art.Nr. 012 700
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 40 D <sub>i</sub> = 20,4 t = 1,0 l <sub>0</sub> = 2,3 h <sub>0</sub> = 1,3
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,961 D <sub>e</sub> /t = 40 h <sub>0</sub> /t = 1,300
<b>Gewicht / weight / poids</b> 7,067 kg / 1000 St. / pcs



**40 x 20,4 x 1,5**

DIN 2093 - B 40  
 Gruppe/Group/Groupe 2  
 Art.Nr. 012 800

**Abmessungen /  
 Dimensions [mm]**

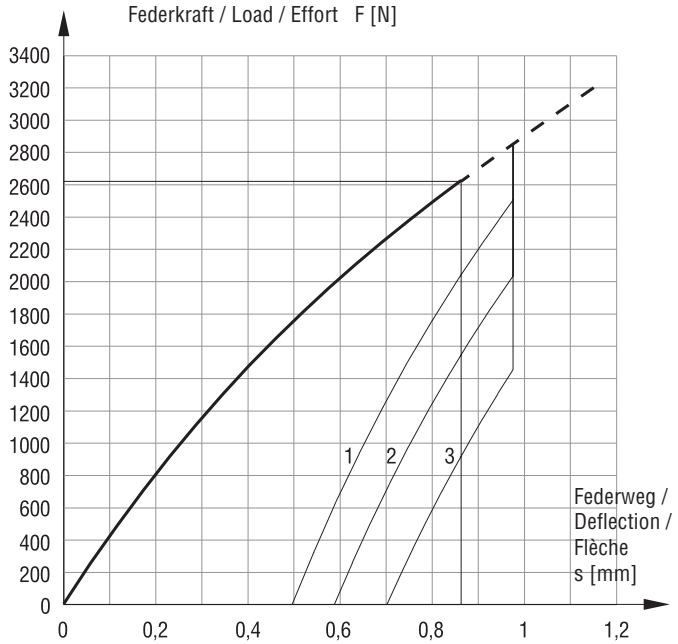
$D_e = 40$   
 $D_i = 20,4$   
 $t = 1,5$   
 $l_0 = 2,65$   
 $h_0 = 1,15$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,961$   
 $D_e/t = 26,67$   
 $h_0/t = 0,767$

**Gewicht / weight / poids**

10,53 kg / 1000 St. / pcs



**40 x 20,4 x 2**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 012 900

**Abmessungen /  
 Dimensions [mm]**

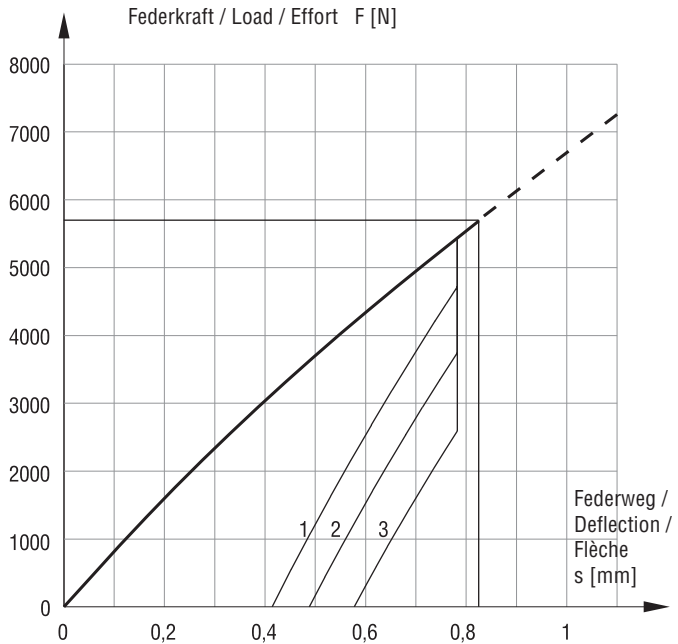
$D_e = 40$   
 $D_i = 20,4$   
 $t = 2,0$   
 $l_0 = 3,1$   
 $h_0 = 1,1$

**TF-Kennwerte /  
 parameters / rapports**

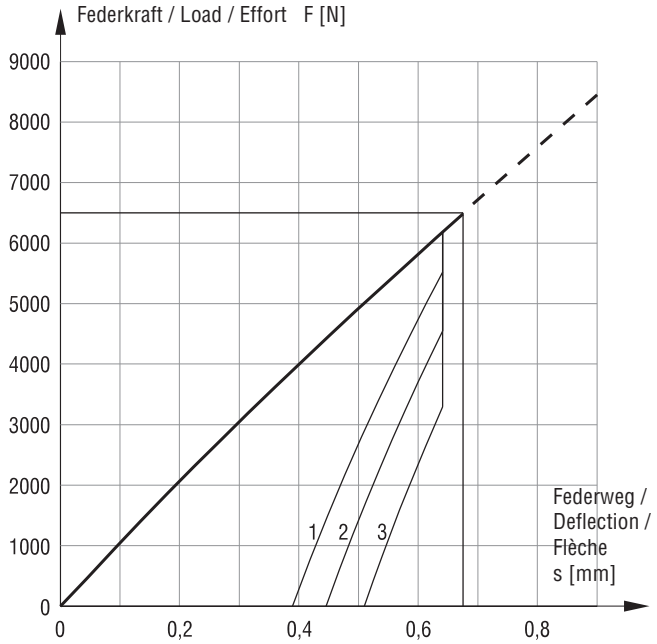
$D_e/D_i = 1,961$   
 $D_e/t = 20$   
 $h_0/t = 0,550$

**Gewicht / weight / poids**

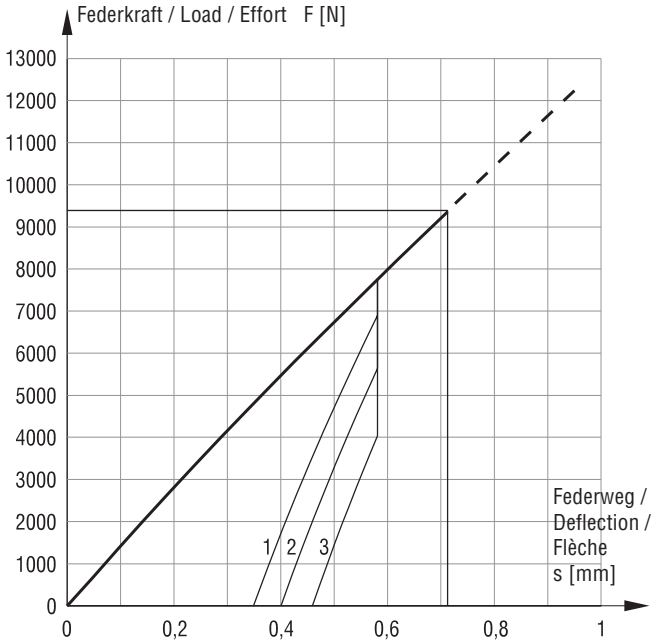
14,06 kg / 1000 St. / pcs



<b>40 x 20,4 x 2,25</b>
DIN 2093 - A 40 Gruppe/Group/Groupe 2 Art.Nr. 013 000
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 40 D <sub>i</sub> = 20,4 t = 2,25 l <sub>0</sub> = 3,15 h <sub>0</sub> = 0,9
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,961 D <sub>e</sub> /t = 17,78 h <sub>0</sub> /t = 0,400
<b>Gewicht / weight / poids</b> 15,72 kg / 1000 St. / pcs



<b>40 x 20,4 x 2,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 013 100
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 40 D <sub>i</sub> = 20,4 t = 2,5 l <sub>0</sub> = 3,45 h <sub>0</sub> = 0,95
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,961 D <sub>e</sub> /t = 16 h <sub>0</sub> /t = 0,380
<b>Gewicht / weight / poids</b> 17,52 kg / 1000 St. / pcs



**45 x 22,4 x 1,25**

DIN 2093 - C 45  
 Gruppe/Group/Groupe 2  
 Art.Nr. 013 250

**Abmessungen /  
 Dimensions [mm]**

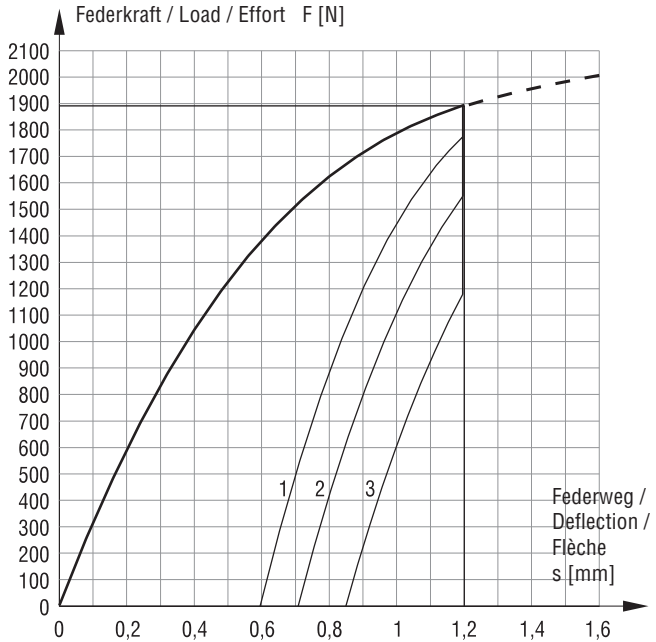
$D_e = 45$   
 $D_i = 22,4$   
 $t = 1,25$   
 $l_0 = 2,85$   
 $h_0 = 1,6$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,009$   
 $D_e/t = 36$   
 $h_0/t = 1,280$

**Gewicht / weight / poids**

11,34 kg / 1000 St. / pcs



**45 x 22,4 x 1,75**

DIN 2093 - B 45  
 Gruppe/Group/Groupe 2  
 Art.Nr. 013 300

**Abmessungen /  
 Dimensions [mm]**

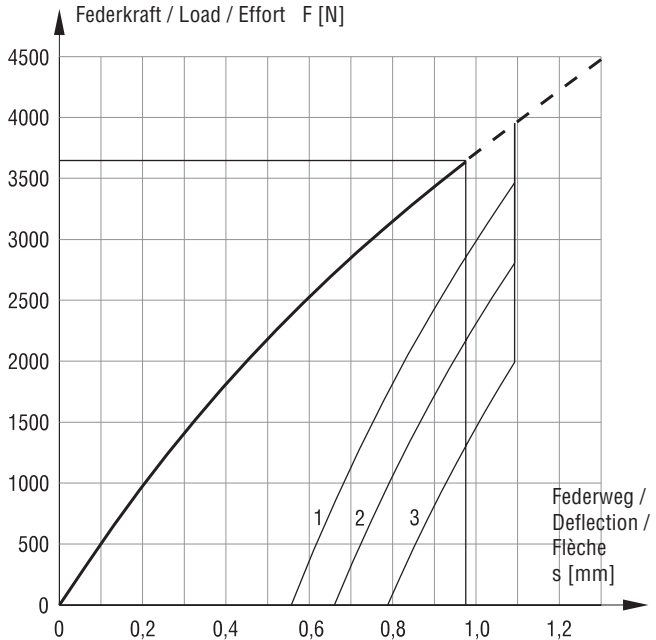
$D_e = 45$   
 $D_i = 22,4$   
 $t = 1,75$   
 $l_0 = 3,05$   
 $h_0 = 1,3$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,009$   
 $D_e/t = 25,71$   
 $h_0/t = 0,743$

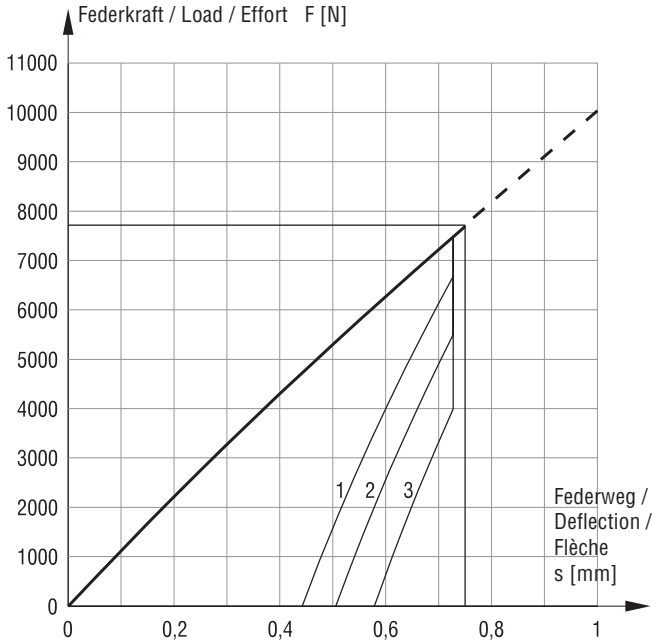
**Gewicht / weight / poids**

15,89 kg / 1000 St. / pcs

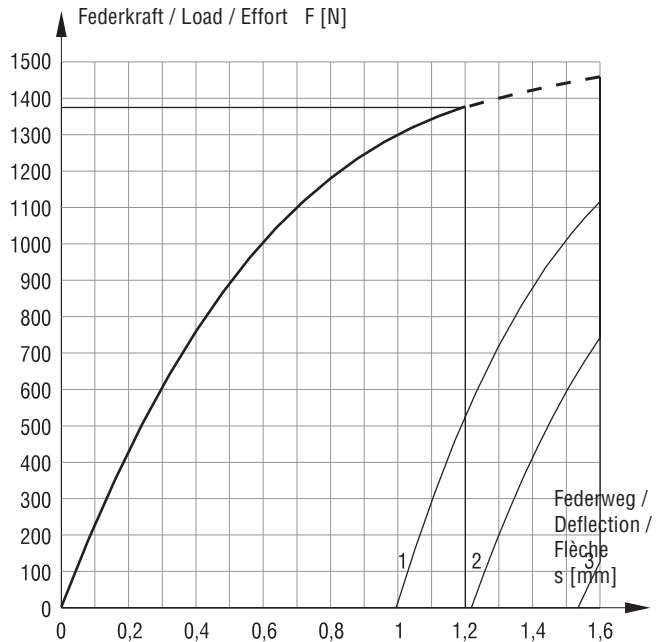




<b>45 x 22,4 x 2,5</b>
DIN 2093 - A 45 Gruppe/Group/Groupe 2 Art.Nr. 013 400
<b>Abmessungen / Dimensions [mm]</b> $D_e = 45$ $D_i = 22,4$ $t = 2,5$ $l_0 = 3,5$ $h_0 = 1,0$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,009$ $D_e/t = 18$ $h_0/t = 0,400$
<b>Gewicht / weight / poids</b> 22,77 kg / 1000 St. / pcs



<b>50 x 18,4 x 1,25</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 013 500
<b>Abmessungen / Dimensions [mm]</b> $D_e = 50$ $D_i = 18,4$ $t = 1,25$ $l_0 = 2,85$ $h_0 = 1,6$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,717$ $D_e/t = 40$ $h_0/t = 1,280$
<b>Gewicht / weight / poids</b> 16,13 kg / 1000 St. / pcs



**50 x 18,4 x 1,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 013 600

**Abmessungen /  
 Dimensions [mm]**

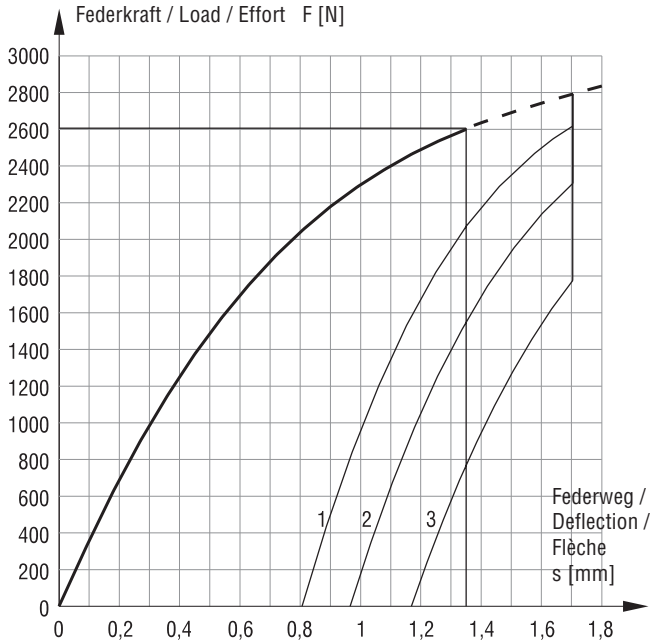
$D_e = 50$   
 $D_i = 18,4$   
 $t = 1,5$   
 $l_0 = 3,3$   
 $h_0 = 1,8$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,717$   
 $D_e/t = 33,33$   
 $h_0/t = 1,200$

**Gewicht / weight / poids**

19,31 kg / 1000 St. / pcs



**50 x 18,4 x 2**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 013 700

**Abmessungen /  
 Dimensions [mm]**

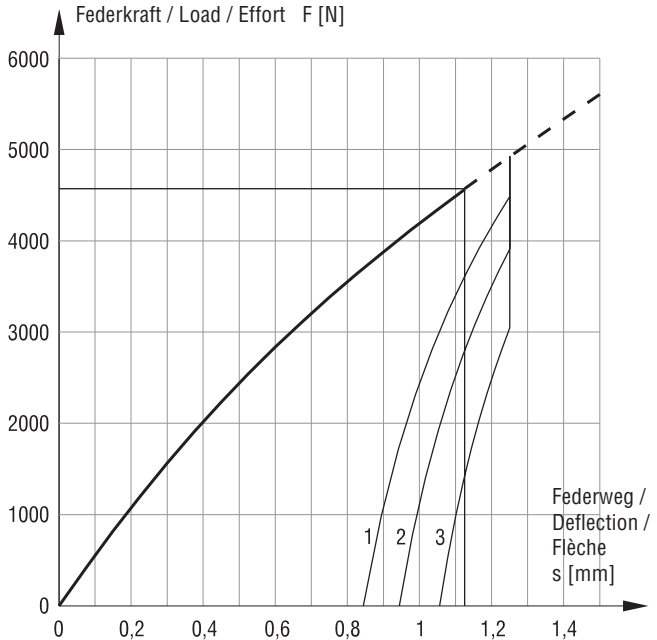
$D_e = 50$   
 $D_i = 18,4$   
 $t = 2,0$   
 $l_0 = 3,5$   
 $h_0 = 1,5$

**TF-Kennwerte /  
 parameters / rapports**

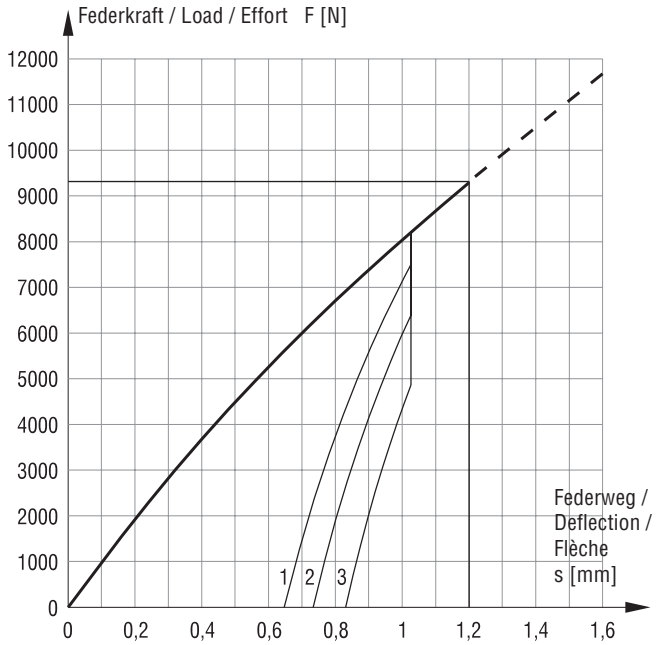
$D_e/D_i = 2,717$   
 $D_e/t = 25$   
 $h_0/t = 0,750$

**Gewicht / weight / poids**

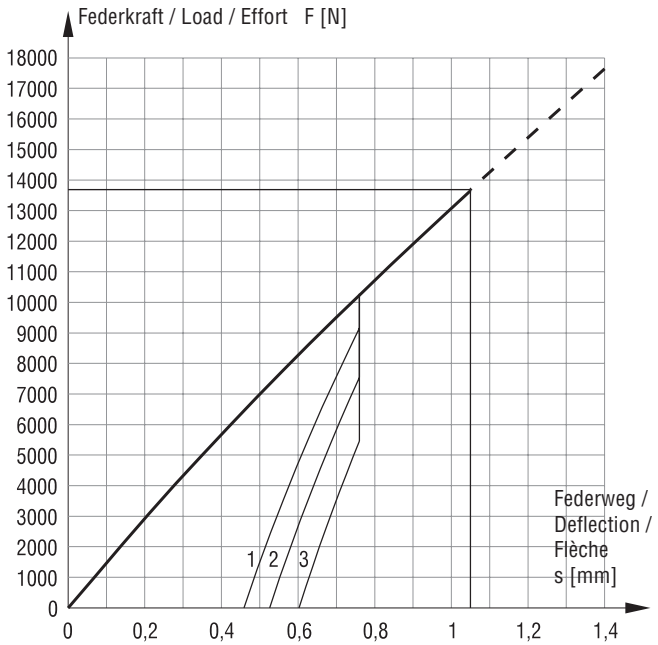
25,79 kg / 1000 St. / pcs



<b>50 x 18,4 x 2,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 013 800
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 50 D <sub>i</sub> = 18,4 t = 2,5 l <sub>0</sub> = 4,1 h <sub>0</sub> = 1,6
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,717 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,640
<b>Gewicht / weight / poids</b> 32,14 kg / 1000 St. / pcs



<b>50 x 18,4 x 3</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 013 900
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 50 D <sub>i</sub> = 18,4 t = 3,0 l <sub>0</sub> = 4,4 h <sub>0</sub> = 1,4
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,717 D <sub>e</sub> /t = 16,67 h <sub>0</sub> /t = 0,467
<b>Gewicht / weight / poids</b> 38,35 kg / 1000 St. / pcs



**50 x 20,4 x 2**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 014 000

**Abmessungen /  
 Dimensions [mm]**

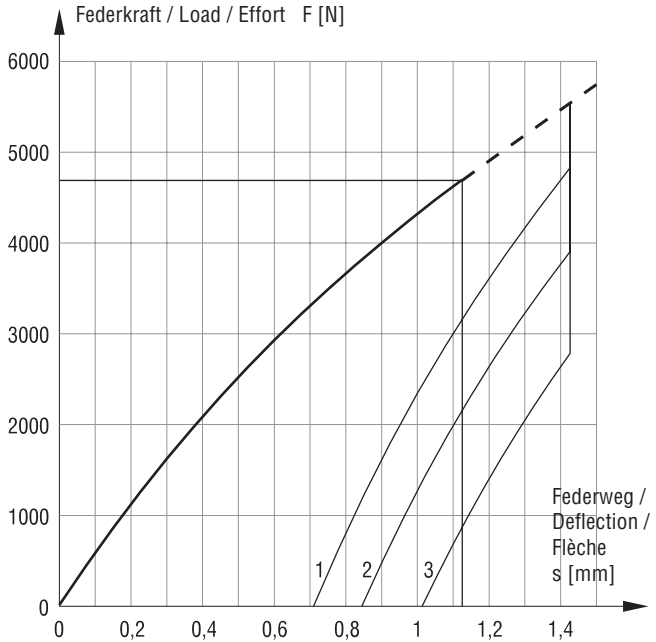
$D_e = 50$   
 $D_i = 20,4$   
 $t = 2,0$   
 $l_0 = 3,5$   
 $h_0 = 1,5$

**TF-Kenn2,451werte /  
 parameters / ra25pports**

$D_e/D_i = 2,451$   
 $D_e/t = 25$   
 $h_0/t = 0,750$

**Gewicht / weight / poids**

24,85 kg / 1000 St. / pcs



**50 x 20,4 x 2,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 014 100

**Abmessungen /  
 Dimensions [mm]**

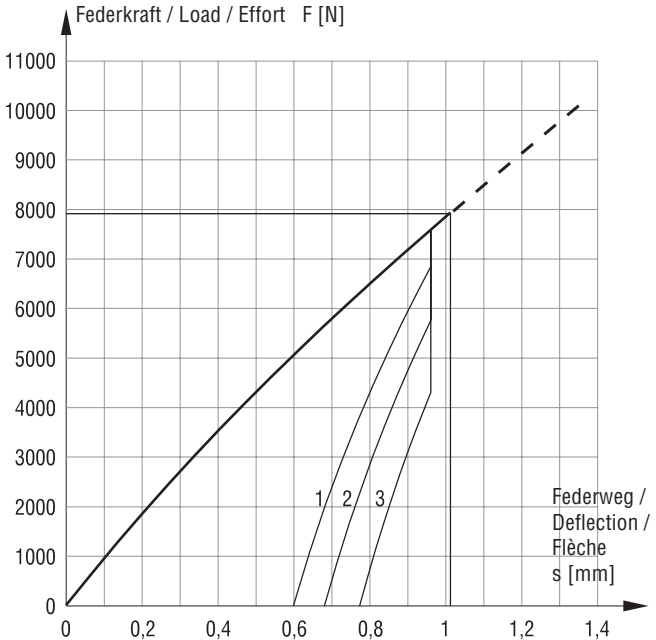
$D_e = 50$   
 $D_i = 20,4$   
 $t = 2,5$   
 $l_0 = 3,85$   
 $h_0 = 1,35$

**TF-Kennwerte /  
 parameters / rapports**

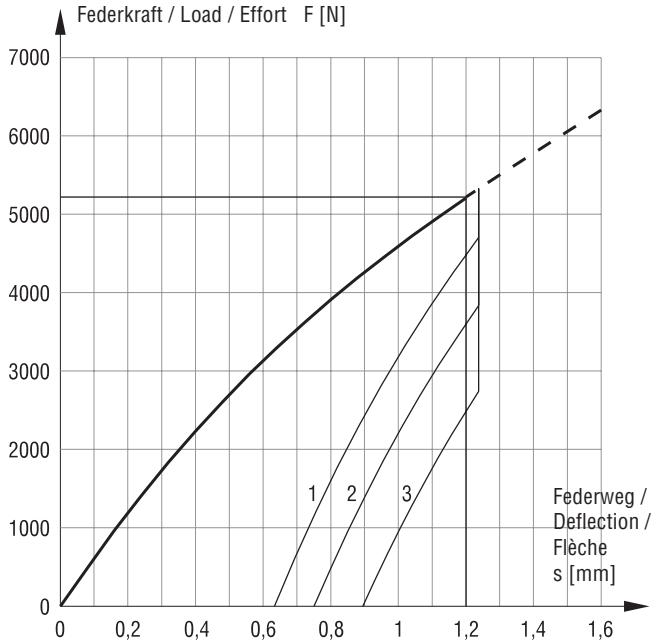
$D_e/D_i = 2,451$   
 $D_e/t = 20$   
 $h_0/t = 0,540$

**Gewicht / weight / poids**

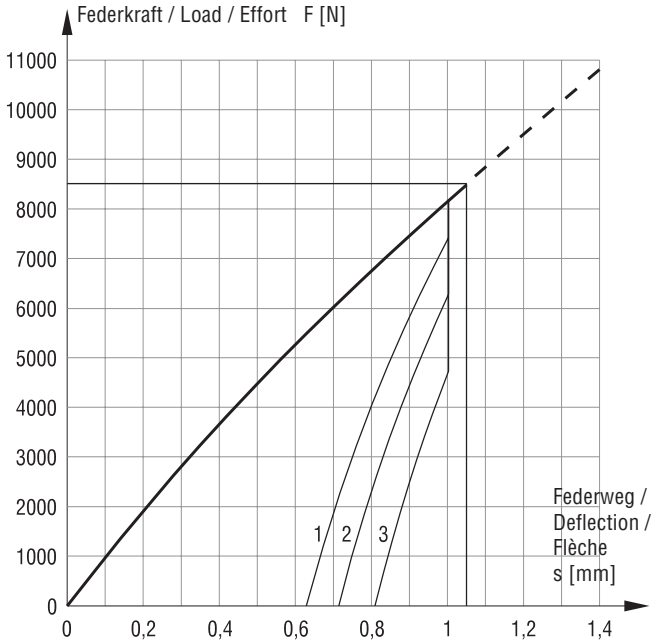
30,97 kg / 1000 St. / pcs



<b>50 x 22,4 x 2</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 014 200
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 50 D <sub>i</sub> = 22,4 t = 2,0 l <sub>0</sub> = 3,6 h <sub>0</sub> = 1,6
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,232 D <sub>e</sub> /t = 25 h <sub>0</sub> /t = 0,800
<b>Gewicht / weight / poids</b> 23,82 kg / 1000 St. / pcs



<b>50 x 22,4 x 2,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 014 300
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 50 D <sub>i</sub> = 22,4 t = 2,5 l <sub>0</sub> = 3,9 h <sub>0</sub> = 1,4
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,232 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,560
<b>Gewicht / weight / poids</b> 29,68 kg / 1000 St. / pcs



**50 x 25,4 x 1,25**

DIN 2093 - C 50  
 Gruppe/Group/Groupe 2  
 Art.Nr. 014 400

**Abmessungen /  
 Dimensions [mm]**

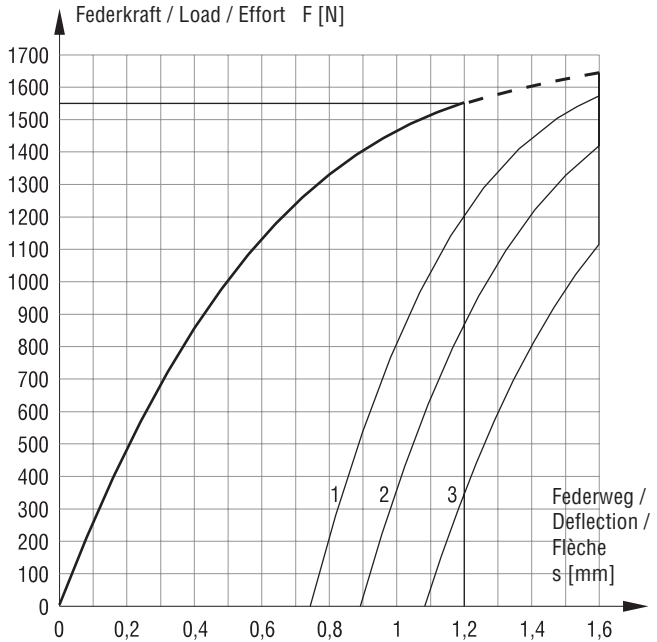
$D_e = 50$   
 $D_i = 25,4$   
 $t = 1,25$   
 $l_0 = 2,85$   
 $h_0 = 1,6$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,969$   
 $D_e/t = 40$   
 $h_0/t = 1,280$

**Gewicht / weight / poids**

13,82 kg / 1000 St. / pcs



**50 x 25,4 x 1,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 014 500

**Abmessungen /  
 Dimensions [mm]**

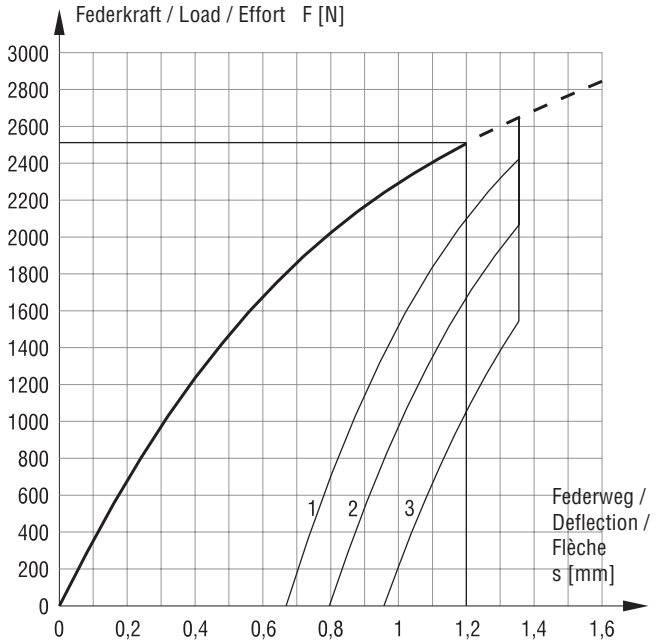
$D_e = 50$   
 $D_i = 25,4$   
 $t = 1,5$   
 $l_0 = 3,1$   
 $h_0 = 1,6$

**TF-Kennwerte /  
 parameters / rapports**

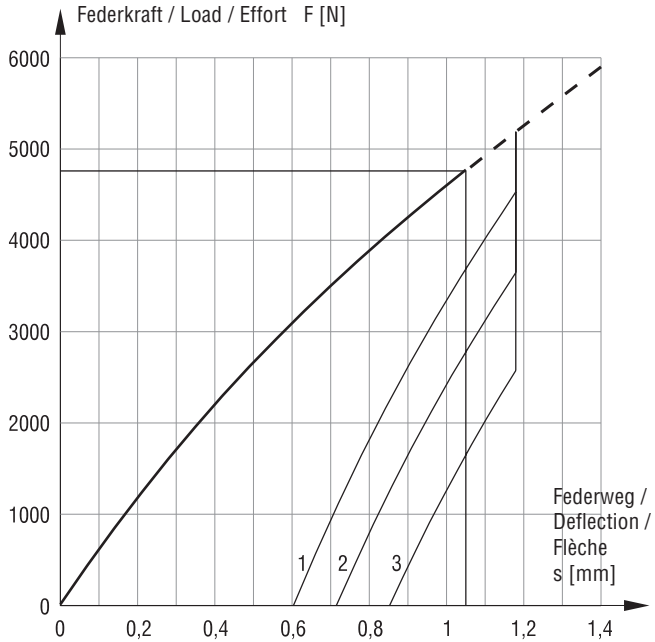
$D_e/D_i = 1,969$   
 $D_e/t = 33,33$   
 $h_0/t = 1,067$

**Gewicht / weight / poids**

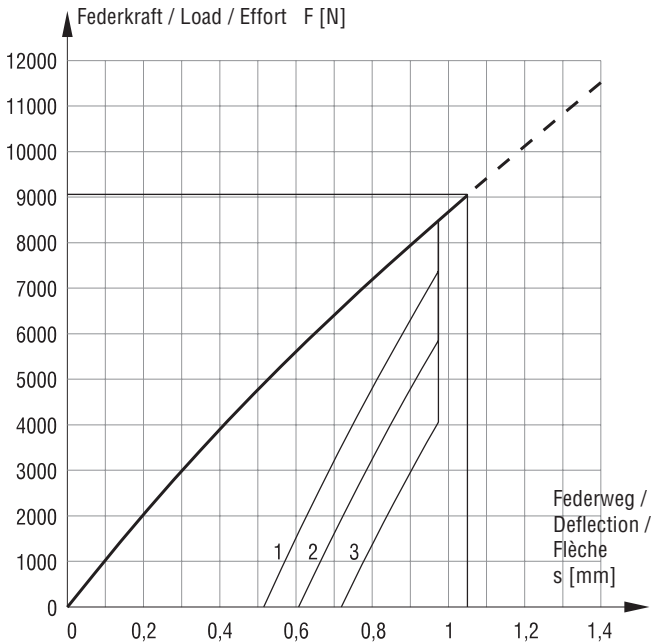
16,54 kg / 1000 St. / pcs



<b>50 x 25,4 x 2</b>
DIN 2093 - B 50 Gruppe/Group/Groupe 2 Art.Nr. 014 600
<b>Abmessungen / Dimensions [mm]</b> $D_e = 50$ $D_i = 25,4$ $t = 2,0$ $l_0 = 3,4$ $h_0 = 1,4$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,969$ $D_e/t = 25$ $h_0/t = 0,700$
<b>Gewicht / weight / poids</b> 22,09 kg / 1000 St. / pcs



<b>50 x 25,4 x 2,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 014 700
<b>Abmessungen / Dimensions [mm]</b> $D_e = 50$ $D_i = 25,4$ $t = 2,5$ $l_0 = 3,9$ $h_0 = 1,4$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,969$ $D_e/t = 20$ $h_0/t = 0,560$
<b>Gewicht / weight / poids</b> 27,52 kg / 1000 St. / pcs



**50 x 25,4 x 3**

DIN 2093 - A 50  
 Gruppe/Group/Groupe 2  
 Art.Nr. 014 800

**Abmessungen /  
 Dimensions [mm]**

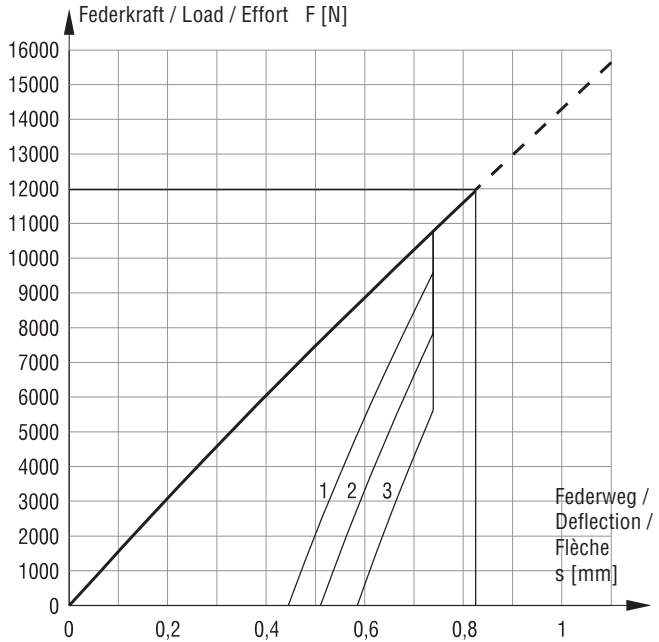
$D_e = 50$   
 $D_i = 25,4$   
 $t = 3,0$   
 $l_0 = 4,1$   
 $h_0 = 1,1$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,969$   
 $D_e/t = 16,67$   
 $h_0/t = 0,367$

**Gewicht / weight / poids**

32,85 kg / 1000 St. / pcs



**56 x 28,5 x 1,5**

DIN 2093 - C 56  
 Gruppe/Group/Groupe 2  
 Art.Nr. 014 950

**Abmessungen /  
 Dimensions [mm]**

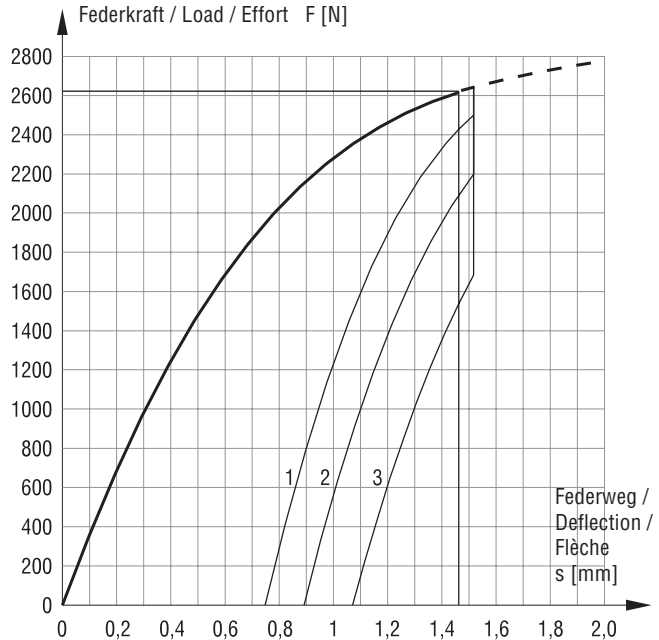
$D_e = 56$   
 $D_i = 28,5$   
 $t = 1,5$   
 $l_0 = 3,45$   
 $h_0 = 1,95$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,965$   
 $D_e/t = 37,33$   
 $h_0/t = 1,300$

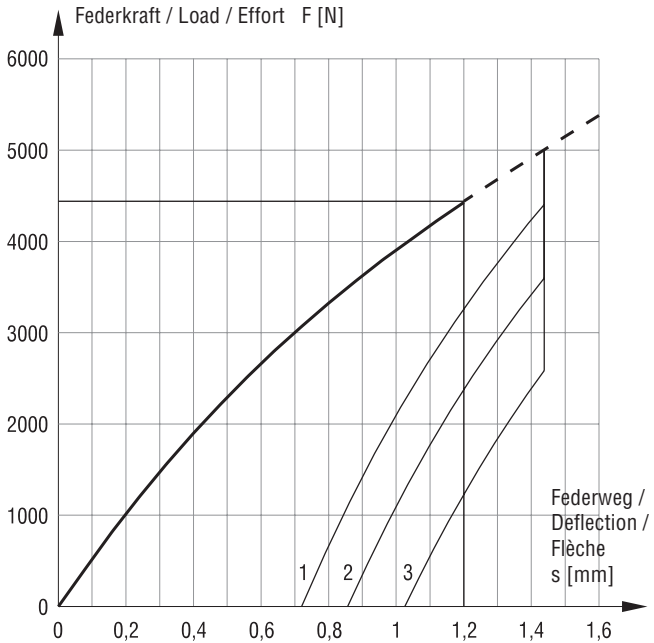
**Gewicht / weight / poids**

20,85 kg / 1000 St. / pcs

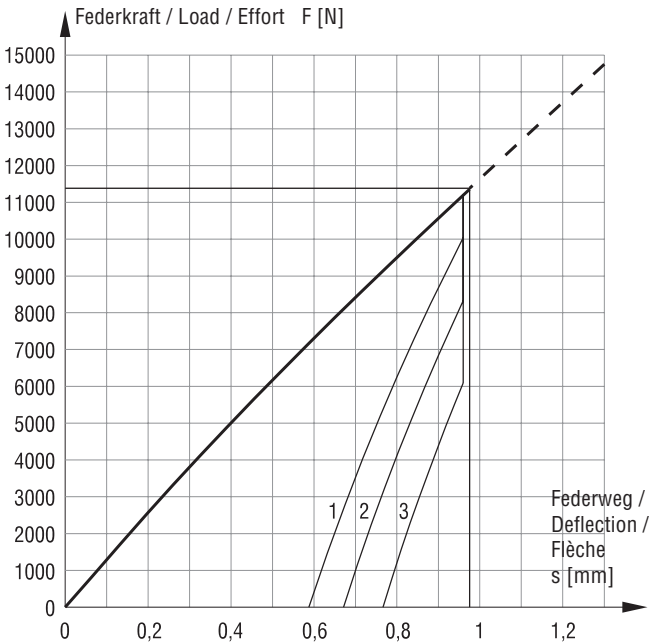




<b>56 x 28,5 x 2</b>
DIN 2093 - B 56 Gruppe/Group/Groupe 2 Art.Nr. 015 000
<b>Abmessungen / Dimensions [mm]</b> $D_e = 56$ $D_i = 28,5$ $t = 2,0$ $l_0 = 3,6$ $h_0 = 1,6$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,965$ $D_e/t = 28$ $h_0/t = 0,800$
<b>Gewicht / weight / poids</b> 27,81 kg / 1000 St. / pcs



<b>56 x 28,5 x 3</b>
DIN 2093 - A 56 Gruppe/Group/Groupe 2 Art.Nr. 015 100
<b>Abmessungen / Dimensions [mm]</b> $D_e = 56$ $D_i = 28,5$ $t = 3,0$ $l_0 = 4,3$ $h_0 = 1,3$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,965$ $D_e/t = 18,67$ $h_0/t = 0,433$
<b>Gewicht / weight / poids</b> 41,57 kg / 1000 St. / pcs



**60 x 20,5 x 2**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 015 200

**Abmessungen /  
 Dimensions [mm]**

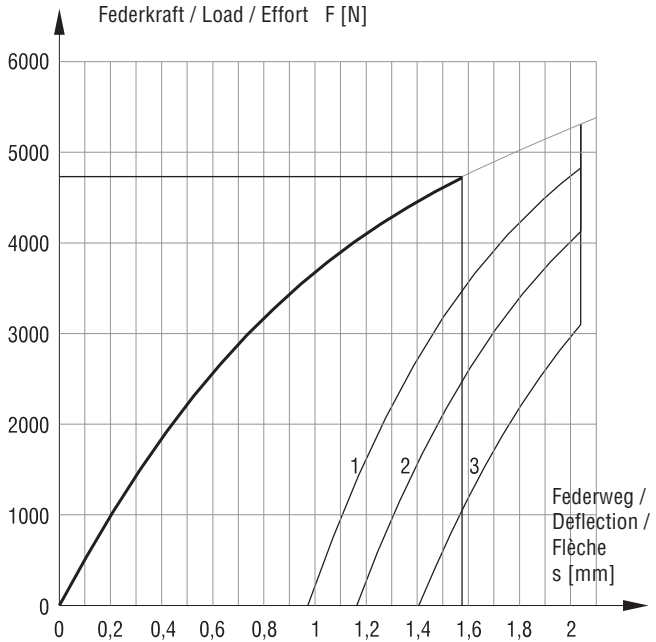
$D_e = 60$   
 $D_i = 20,5$   
 $t = 2,0$   
 $l_0 = 4,1$   
 $h_0 = 2,1$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,927$   
 $D_e/t = 30$   
 $h_0/t = 1,050$

**Gewicht / weight / poids**

38,16 kg / 1000 St. / pcs



**60 x 20,5 x 2,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 015 300

**Abmessungen /  
 Dimensions [mm]**

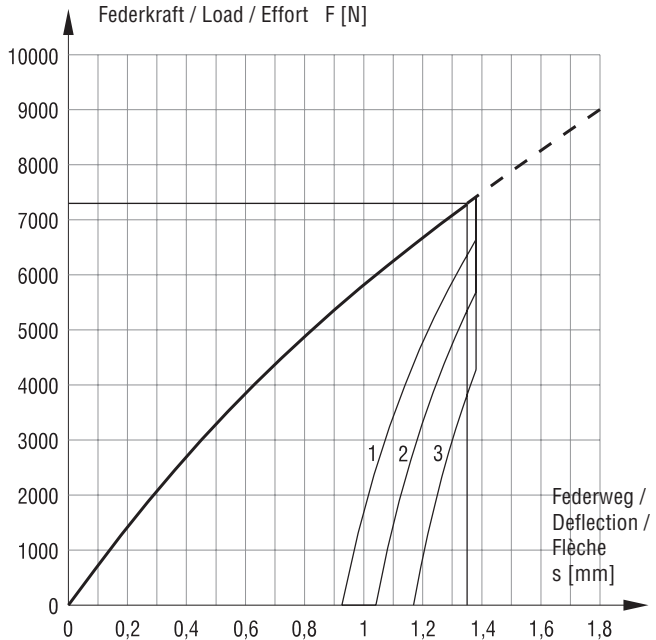
$D_e = 60$   
 $D_i = 20,5$   
 $t = 2,5$   
 $l_0 = 4,3$   
 $h_0 = 1,8$

**TF-Kennwerte /  
 parameters / rapports**

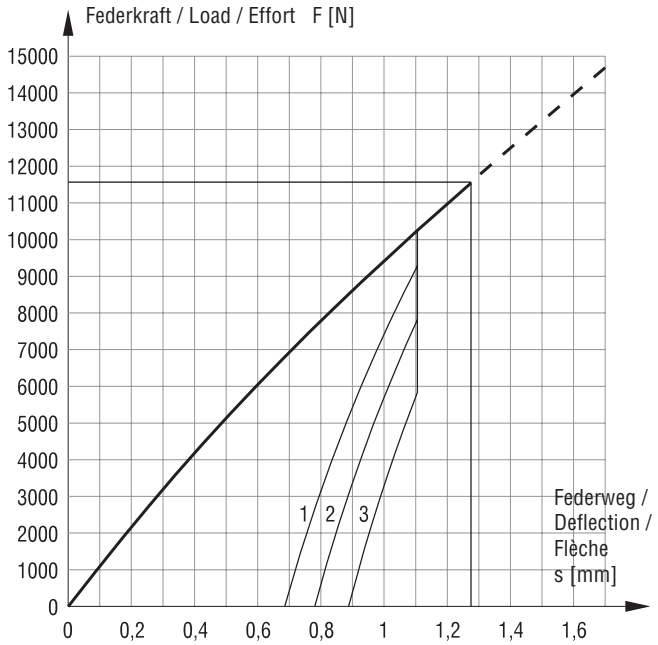
$D_e/D_i = 2,927$   
 $D_e/t = 24$   
 $h_0/t = 0,720$

**Gewicht / weight / poids**

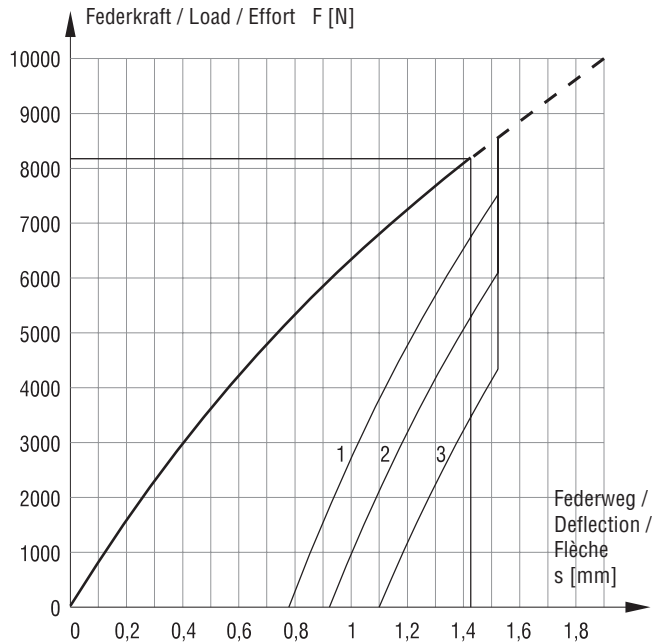
47,69kg / 1000 St. / pcs



<b>60 x 20,5 x 3</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 015 400
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 60 D <sub>i</sub> = 20,5 t = 3,0 l <sub>0</sub> = 4,7 h <sub>0</sub> = 1,7
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,927 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,567
<b>Gewicht / weight / poids</b> 57,04 kg / 1000 St. / pcs



<b>60 x 25,5 x 2,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 015 500
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 60 D <sub>i</sub> = 25,5 t = 2,5 l <sub>0</sub> = 4,4 h <sub>0</sub> = 1,9
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,353 D <sub>e</sub> /t = 24 h <sub>0</sub> /t = 0,760
<b>Gewicht / weight / poids</b> 44,20 kg / 1000 St. / pcs



**60 x 25,5 x 3**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 015 600

**Abmessungen /  
 Dimensions [mm]**

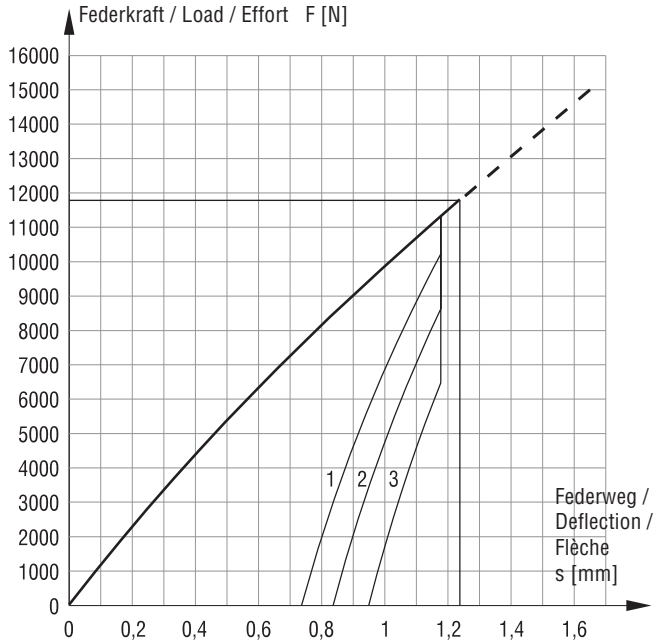
$D_e = 60$   
 $D_i = 25,5$   
 $t = 3,0$   
 $l_0 = 4,65$   
 $h_0 = 1,65$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,353$   
 $D_e/t = 20$   
 $h_0/t = 0,550$

**Gewicht / weight / poids**

52,86 kg / 1000 St. / pcs



**60 x 30,5 x 2,5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 015 700

**Abmessungen /  
 Dimensions [mm]**

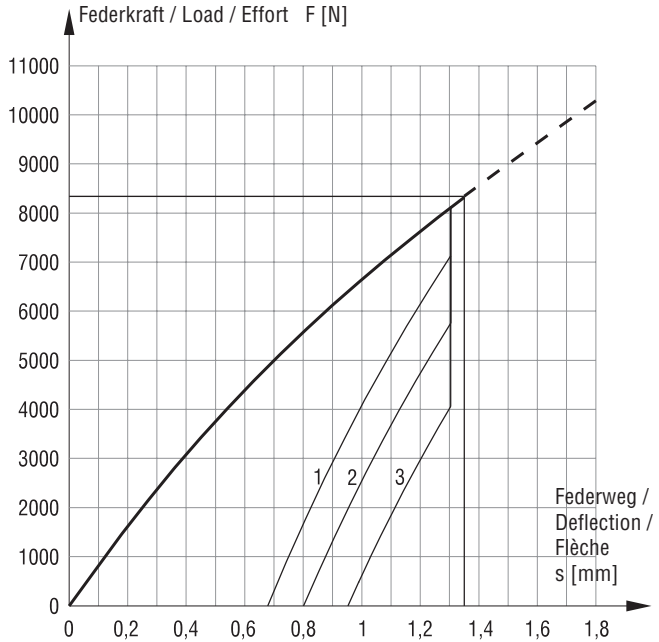
$D_e = 60$   
 $D_i = 30,5$   
 $t = 2,5$   
 $l_0 = 4,3$   
 $h_0 = 1,8$

**TF-Kennwerte /  
 parameters / rapports**

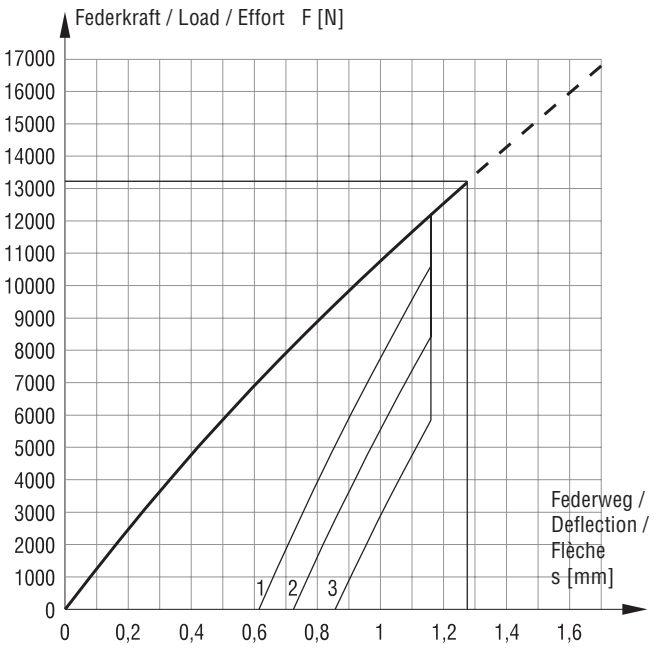
$D_e/D_i = 1,967$   
 $D_e/t = 24$   
 $h_0/t = 0,720$

**Gewicht / weight / poids**

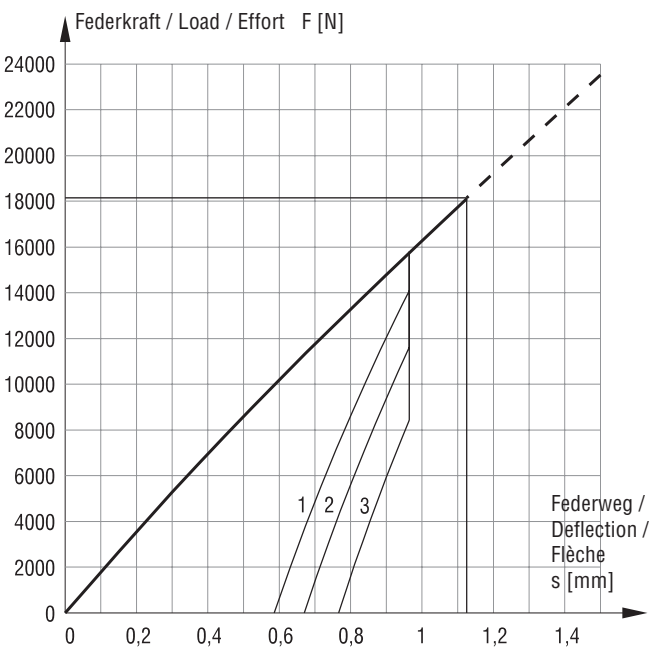
39,94 kg / 1000 St. / pcs



<b>60 x 30,5 x 3</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 015 800
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 60 D <sub>i</sub> = 30,5 t = 3,0 l <sub>0</sub> = 4,7 h <sub>0</sub> = 1,7
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,967 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,567
<b>Gewicht / weight / poids</b> 47,77 kg / 1000 St. / pcs



<b>60 x 30,5 x 3,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 015 900
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 60 D <sub>i</sub> = 30,5 t = 3,5 l <sub>0</sub> = 5,0 h <sub>0</sub> = 1,5
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,967 D <sub>e</sub> /t = 17,14 h <sub>0</sub> /t = 0,429
<b>Gewicht / weight / poids</b> 55,10 kg / 1000 St. / pcs



**63 x 31 x 1,8**

DIN 2093 - C 63  
 Gruppe/Group/Groupe 2  
 Art.Nr. 016 050

**Abmessungen /  
 Dimensions [mm]**

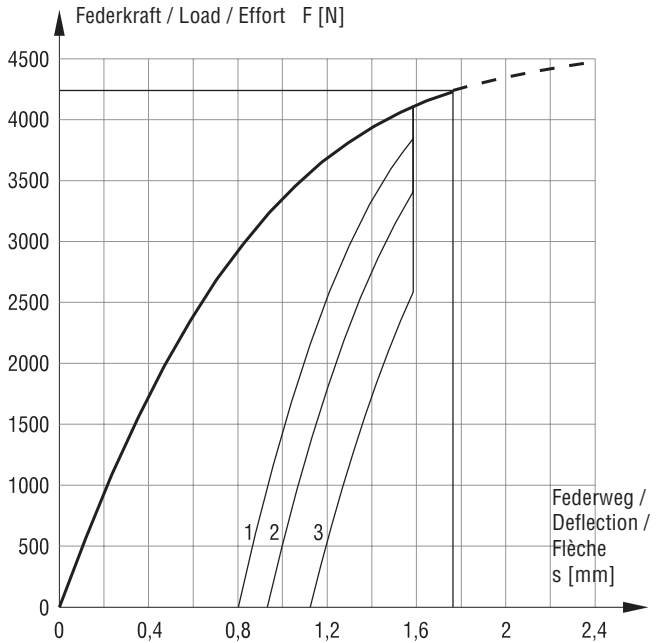
$D_e = 63$   
 $D_i = 31$   
 $t = 1,8$   
 $l_0 = 4,15$   
 $h_0 = 2,35$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,032$   
 $D_e/t = 35$   
 $h_0/t = 1,306$

**Gewicht / weight / poids**

32,53 kg / 1000 St. / pcs



**63 x 31 x 2,5**

DIN 2093 - B 63  
 Gruppe/Group/Groupe 2  
 Art.Nr. 016 100

**Abmessungen /  
 Dimensions [mm]**

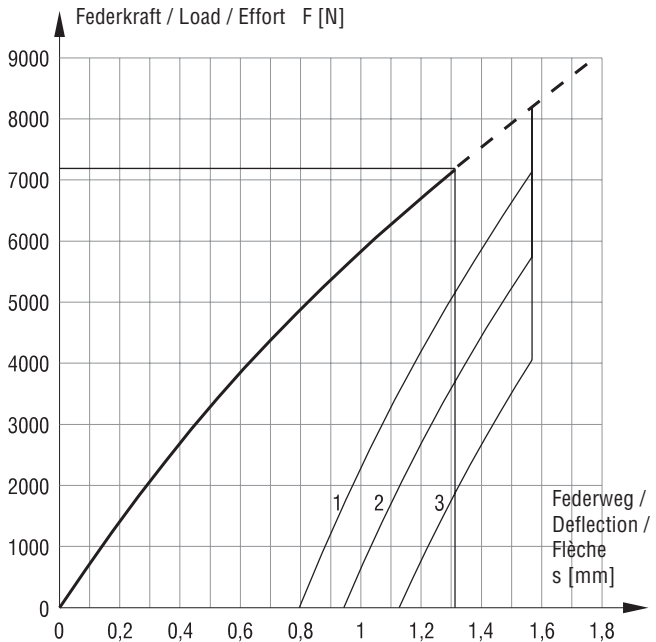
$D_e = 63$   
 $D_i = 31$   
 $t = 2,5$   
 $l_0 = 4,25$   
 $h_0 = 1,75$

**TF-Kennwerte /  
 parameters / rapports**

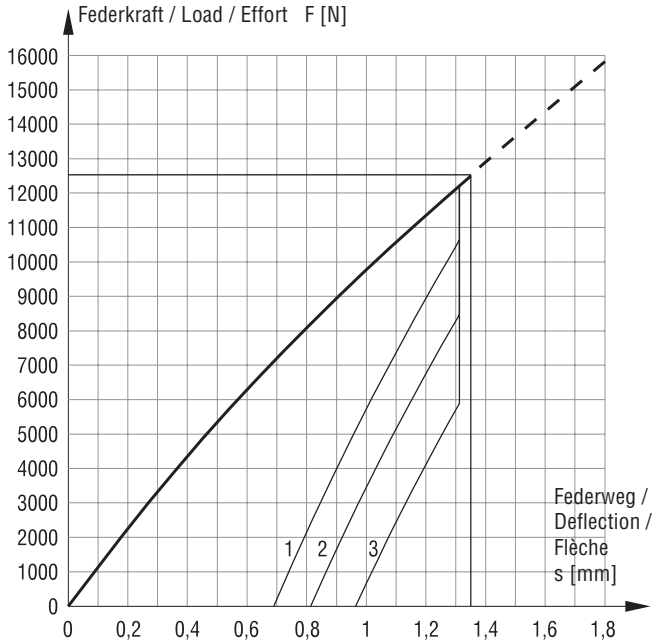
$D_e/D_i = 2,032$   
 $D_e/t = 25,2$   
 $h_0/t = 0,700$

**Gewicht / weight / poids**

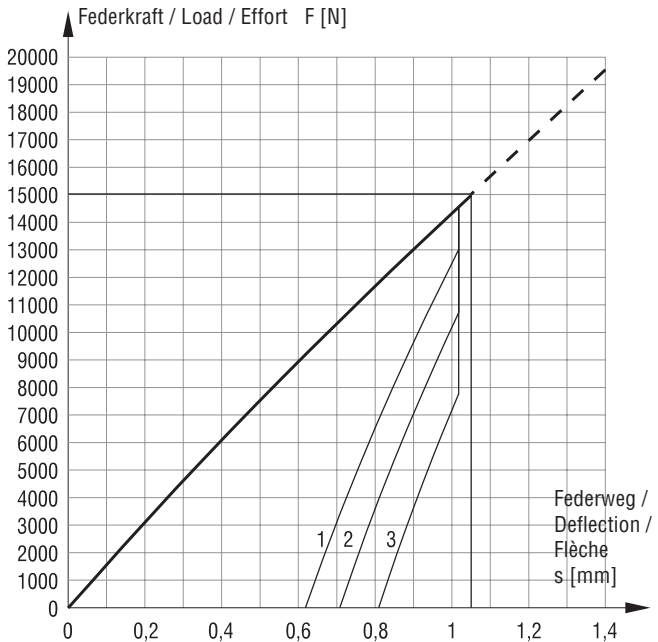
44,85 kg / 1000 St. / pcs



<b>63 x 31 x 3</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 016 200
<b>Abmessungen / Dimensions [mm]</b> $D_e = 63$ $D_i = 31$ $t = 3,0$ $l_0 = 4,8$ $h_0 = 1,8$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,032$ $D_e/t = 21$ $h_0/t = 0,600$
<b>Gewicht / weight / poids</b> 53,86 kg / 1000 St. / pcs



<b>63 x 31 x 3,5</b>
DIN 2093 - A 63 Gruppe/Group/Groupe 2 Art.Nr. 016 300
<b>Abmessungen / Dimensions [mm]</b> $D_e = 63$ $D_i = 31$ $t = 3,5$ $l_0 = 4,9$ $h_0 = 1,4$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,032$ $D_e/t = 18$ $h_0/t = 0,400$
<b>Gewicht / weight / poids</b> 62,13 kg / 1000 St. / pcs



**70 x 25,5 x 2**

Schnorr Werksnorm  
Gruppe/Group/Groupe 2  
Art.Nr. 016 400

**Abmessungen /  
Dimensions [mm]**

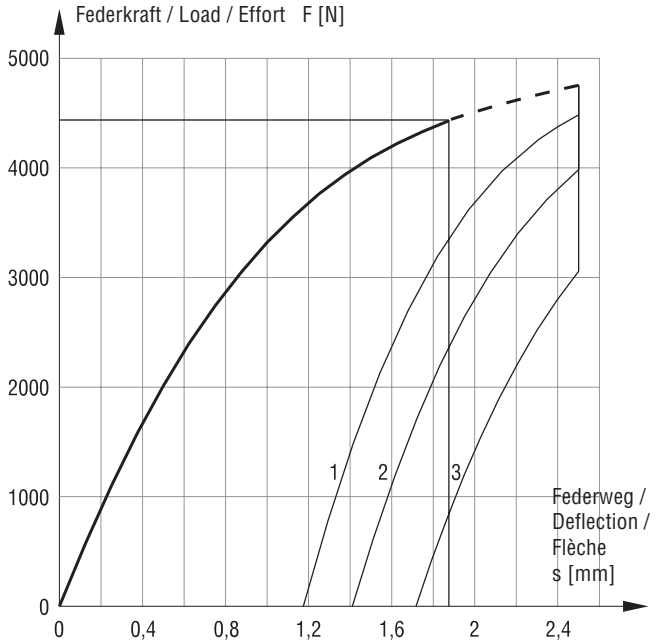
$D_e = 70$   
 $D_i = 25,5$   
 $t = 2,0$   
 $l_0 = 4,5$   
 $h_0 = 2,5$

**TF-Kenn2,5werte /  
parameters / rapports**

$D_e/D_i = 2,745$   
 $D_e/t = 35$   
 $h_0/t = 1,250$

**Gewicht / weight / poids**

50,78 kg / 1000 St. / pcs



**70 x 30,5 x 2,5**

Schnorr Werksnorm  
Gruppe/Group/Groupe 2  
Art.Nr. 016 500

**Abmessungen /  
Dimensions [mm]**

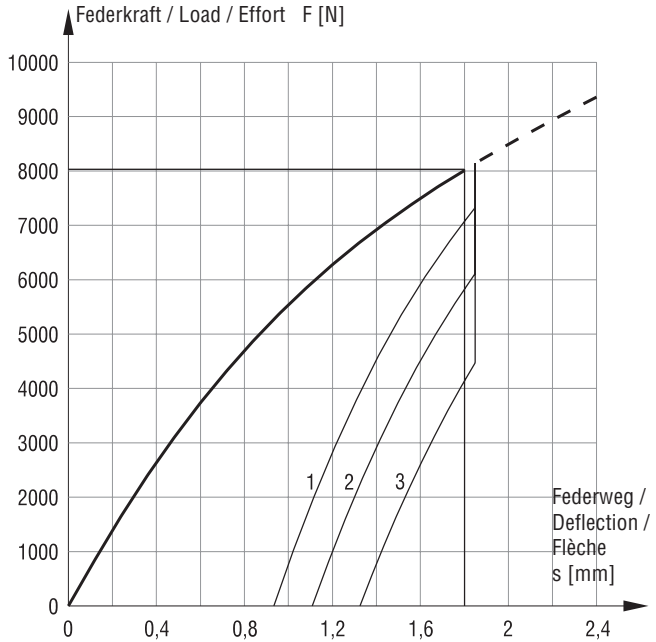
$D_e = 70$   
 $D_i = 30,5$   
 $t = 2,5$   
 $l_0 = 4,9$   
 $h_0 = 2,4$

**TF-Kennwerte /  
parameters / rapports**

$D_e/D_i = 2,295$   
 $D_e/t = 28$   
 $h_0/t = 0,960$

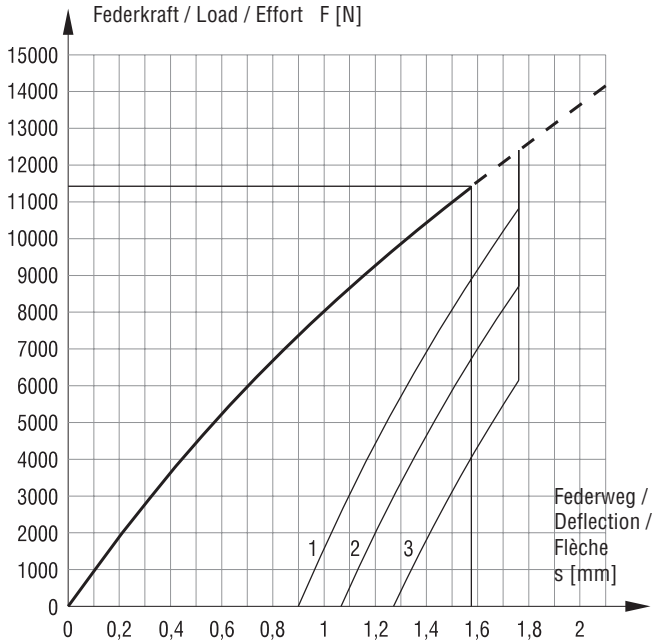
**Gewicht / weight / poids**

59,53 kg / 1000 St. / pcs

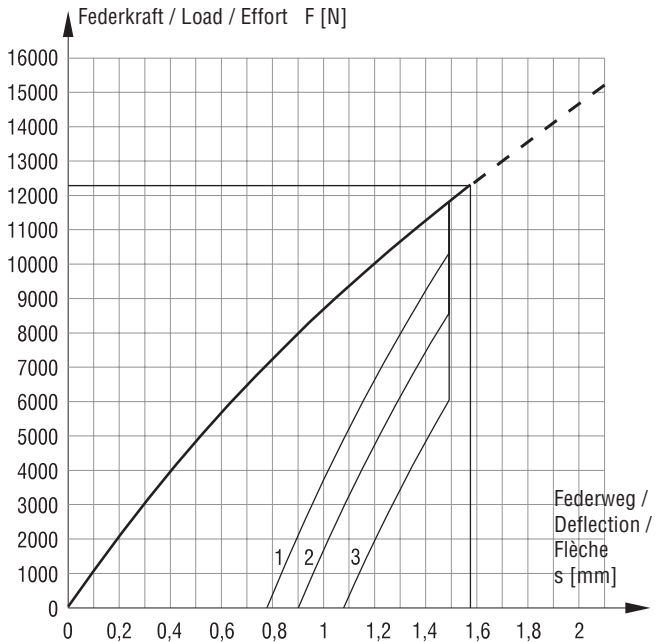




<b>70 x 30,5 x 3</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 016 600
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 70 D <sub>i</sub> = 30,5 t = 3,0 l <sub>0</sub> = 5,1 h <sub>0</sub> = 2,1
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,295 D <sub>e</sub> /t = 23,33 h <sub>0</sub> /t = 0,700
<b>Gewicht / weight / poids</b> 71,19 kg / 1000 St. / pcs



<b>70 x 35,5 x 3</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 016 700
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 70 D <sub>i</sub> = 35,5 t = 3,0 l <sub>0</sub> = 5,1 h <sub>0</sub> = 2,1
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,972 D <sub>e</sub> /t = 23,33 h <sub>0</sub> /t = 0,700
<b>Gewicht / weight / poids</b> 65,21 kg / 1000 St. / pcs



**70 x 35,5 x 4**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 016 800

**Abmessungen /  
 Dimensions [mm]**

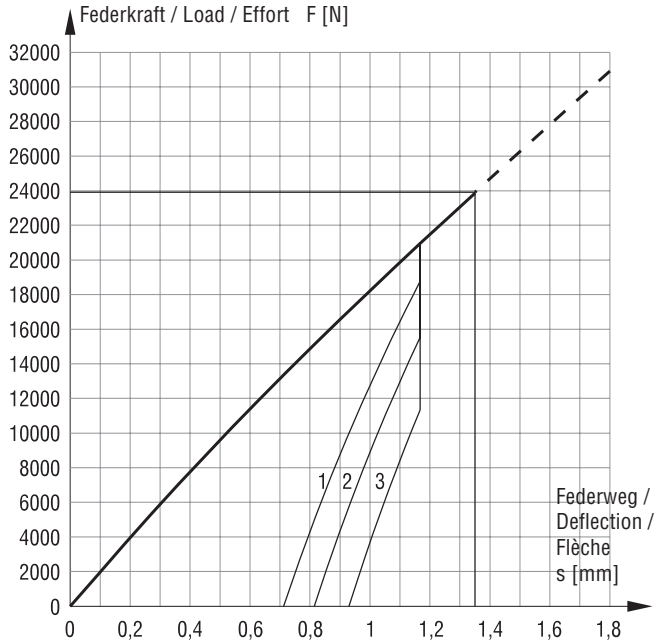
$D_e = 70$   
 $D_i = 35,5$   
 $t = 4,0$   
 $l_0 = 5,8$   
 $h_0 = 1,8$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,972$   
 $D_e/t = 17,5$   
 $h_0/t = 0,450$

**Gewicht / weight / poids**

86,13 kg / 1000 St. / pcs



**70 x 40,5 x 4**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 016 900

**Abmessungen /  
 Dimensions [mm]**

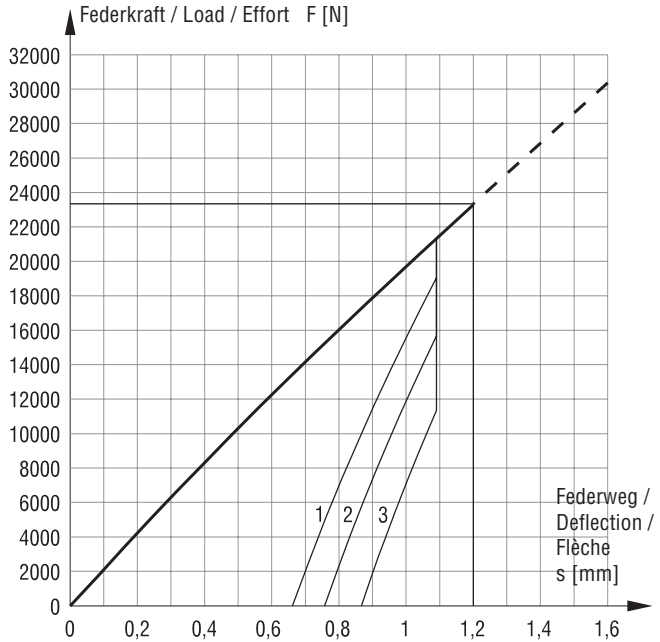
$D_e = 70$   
 $D_i = 40,5$   
 $t = 4,0$   
 $l_0 = 5,6$   
 $h_0 = 1,6$

**TF-Kennwerte /  
 parameters / rapports**

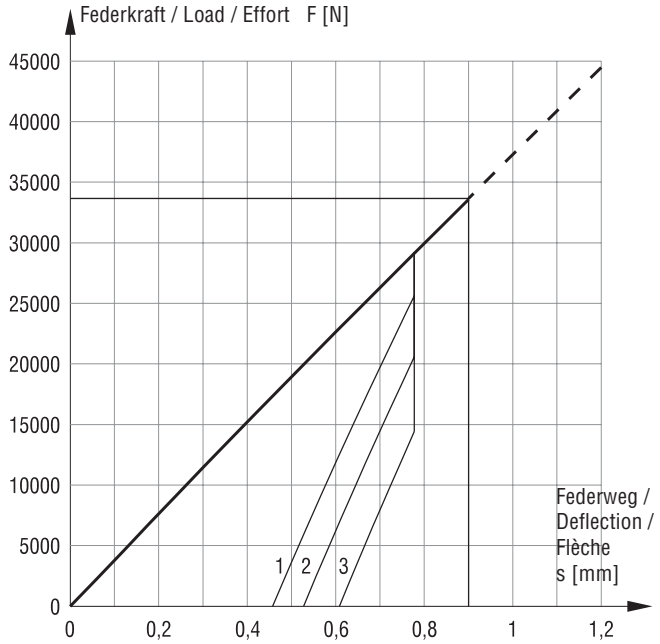
$D_e/D_i = 1,728$   
 $D_e/t = 17,5$   
 $h_0/t = 0,400$

**Gewicht / weight / poids**

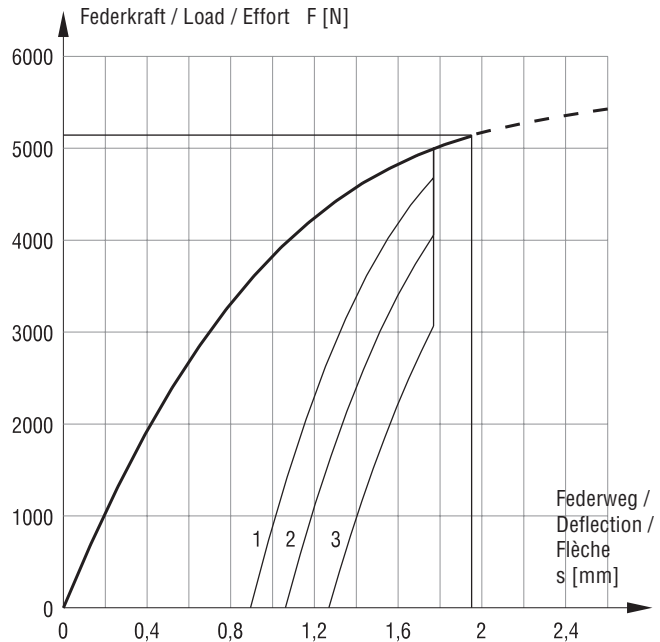
77,04 kg / 1000 St. / pcs



<b>70 x 40,5 x 5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 017 000
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 70 D <sub>i</sub> = 40,5 t = 5,0 l <sub>0</sub> = 6,2 h <sub>0</sub> = 1,2
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,728 D <sub>e</sub> /t = 14 h <sub>0</sub> /t = 0,240
<b>Gewicht / weight / poids</b> 95,15 kg / 1000 St. / pcs



<b>71 x 36 x 2</b>
DIN 2093 - C 71 Gruppe/Group/Groupe 2 Art.Nr. 017 100
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 71 D <sub>i</sub> = 36 t = 2,0 l <sub>0</sub> = 4,6 h <sub>0</sub> = 2,6
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,972 D <sub>e</sub> /t = 35,5 h <sub>0</sub> /t = 1,300
<b>Gewicht / weight / poids</b> 44,66 kg / 1000 St. / pcs



**71 x 36 x 2,5**

DIN 2093 - B 71  
 Gruppe/Group/Groupe 2  
 Art.Nr. 017 200

**Abmessungen /  
 Dimensions [mm]**

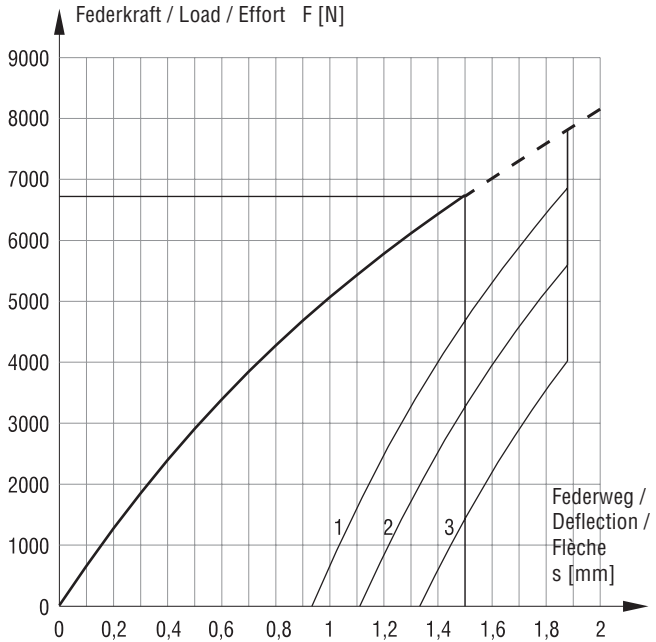
$D_e = 71$   
 $D_i = 36$   
 $t = 2,5$   
 $l_0 = 4,5$   
 $h_0 = 2,0$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,972$   
 $D_e/t = 28,4$   
 $h_0/t = 0,800$

**Gewicht / weight / poids**

56,11 kg / 1000 St. / pcs



**71 x 36 x 4**

DIN 2093 - A 71  
 Gruppe/Group/Groupe 2  
 Art.Nr. 017 300

**Abmessungen /  
 Dimensions [mm]**

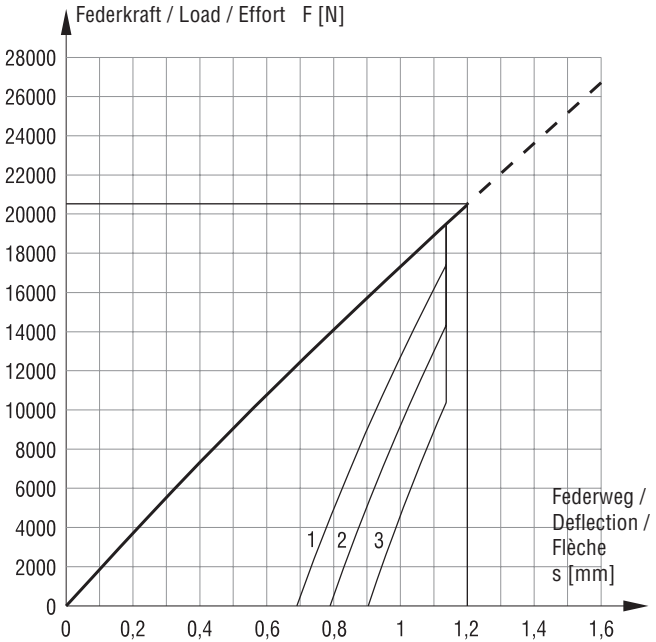
$D_e = 71$   
 $D_i = 36$   
 $t = 4,0$   
 $l_0 = 5,6$   
 $h_0 = 1,6$

**TF-Kennwerte /  
 parameters / rapports**

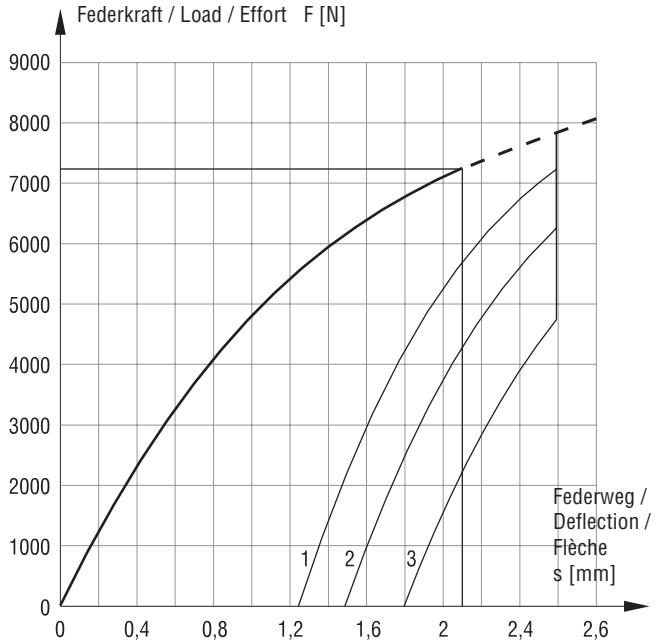
$D_e/D_i = 1,972$   
 $D_e/t = 17,75$   
 $h_0/t = 0,400$

**Gewicht / weight / poids**

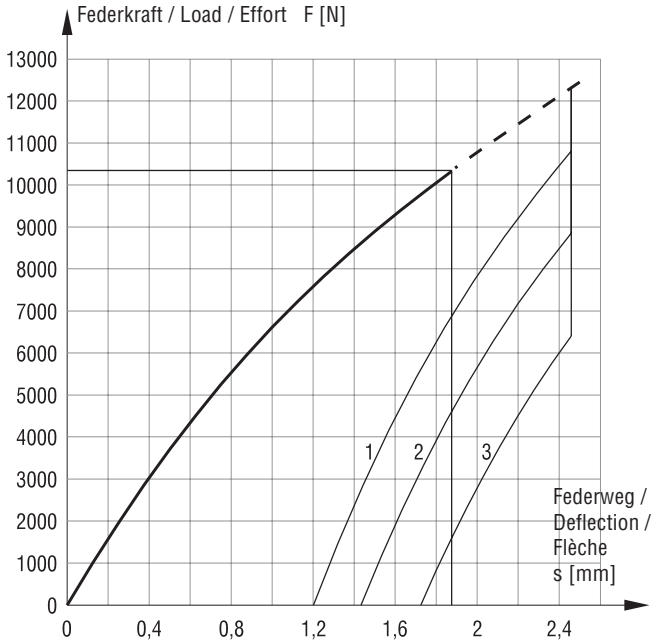
88,63 kg / 1000 St. / pcs



<b>80 x 31 x 2,5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 017 400
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 80 D <sub>i</sub> = 31 t = 2,5 l <sub>0</sub> = 5,3 h <sub>0</sub> = 2,8
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,581 D <sub>e</sub> /t = 32 h <sub>0</sub> /t = 1,120
<b>Gewicht / weight / poids</b> 82,01 kg / 1000 St. / pcs



<b>80 x 31 x 3</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 017 500
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 80 D <sub>i</sub> = 31 t = 3,0 l <sub>0</sub> = 5,5 h <sub>0</sub> = 2,5
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,581 D <sub>e</sub> /t = 26,67 h <sub>0</sub> /t = 0,833
<b>Gewicht / weight / poids</b> 98,01 kg / 1000 St. / pcs



**80 x 31 x 4**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 017 600

**Abmessungen /  
 Dimensions [mm]**

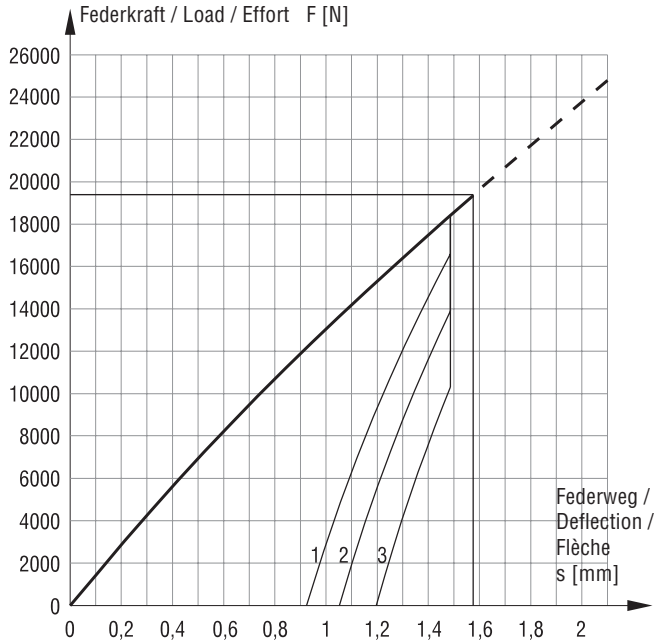
$D_e = 80$   
 $D_i = 31$   
 $t = 4,0$   
 $l_0 = 6,1$   
 $h_0 = 2,1$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,581$   
 $D_e/t = 20$   
 $h_0/t = 0,525$

**Gewicht / weight / poids**

130,0 kg / 1000 St. / pcs



**80 x 36 x 3**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 017 700

**Abmessungen /  
 Dimensions [mm]**

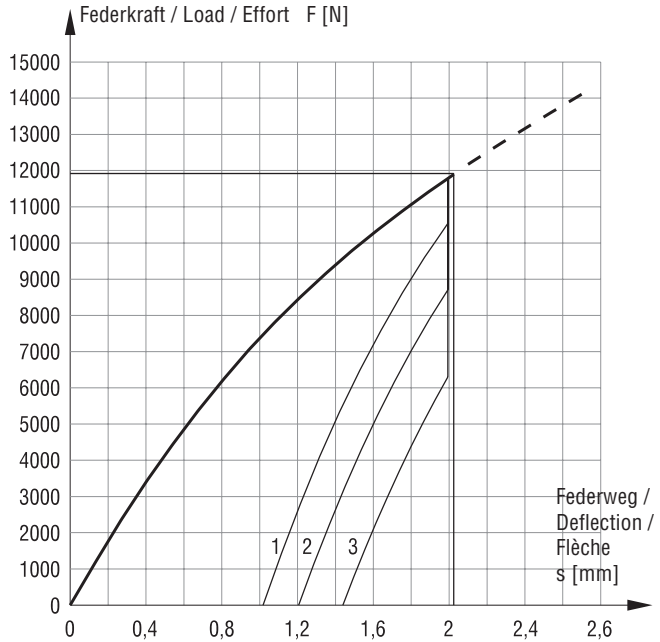
$D_e = 80$   
 $D_i = 36$   
 $t = 3,0$   
 $l_0 = 5,7$   
 $h_0 = 2,7$

**TF-Kennwerte /  
 parameters / rapports**

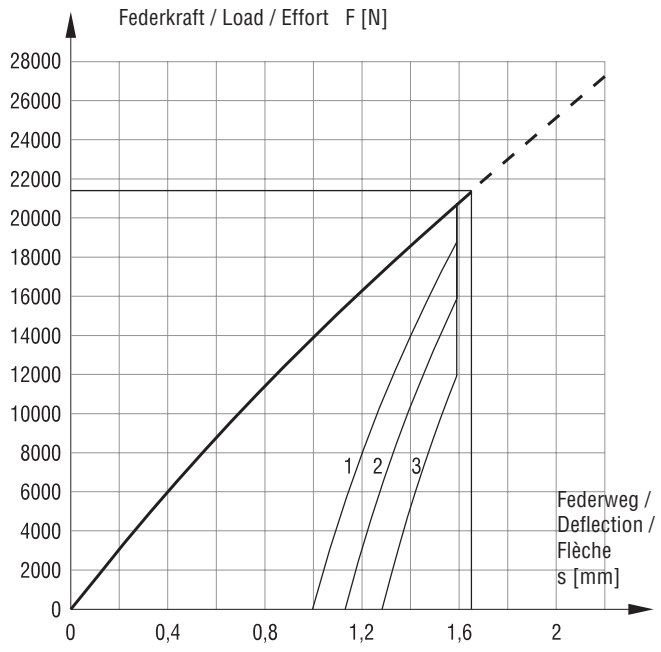
$D_e/D_i = 2,222$   
 $D_e/t = 26,67$   
 $h_0/t = 0,900$

**Gewicht / weight / poids**

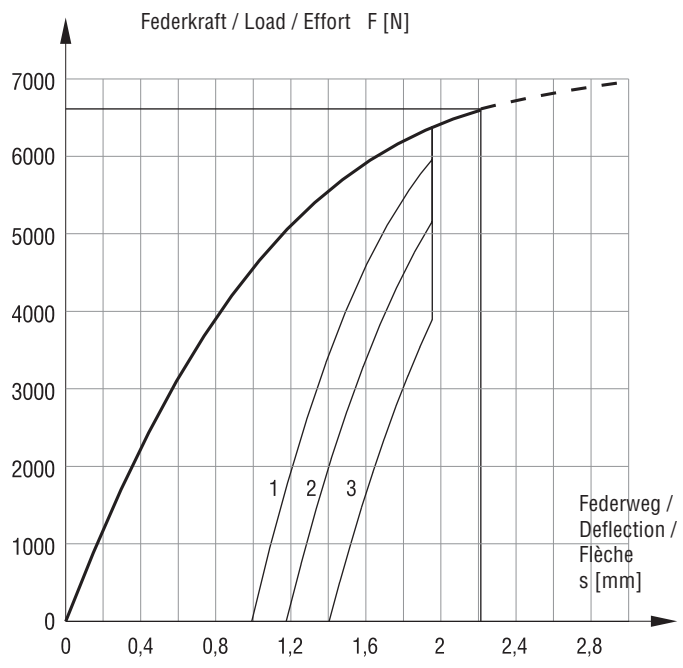
91,92 kg / 1000 St. / pcs



<b>80 x 36 x 4</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 017 800
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 80 D <sub>i</sub> = 36 t = 4,0 l <sub>0</sub> = 6,2 h <sub>0</sub> = 2,2
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,222 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,550
<b>Gewicht / weight / poids</b> 121,9 kg / 1000 St. / pcs



<b>80 x 41 x 2,25</b>
DIN 2093 - C 80 Gruppe/Group/Groupe 2 Art.Nr. 017 850
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 80 D <sub>i</sub> = 41 t = 2,25 l <sub>0</sub> = 5,2 h <sub>0</sub> = 2,95
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,951 D <sub>e</sub> /t = 35,56 h <sub>0</sub> /t = 1,311
<b>Gewicht / weight / poids</b> 63,54 kg / 1000 St. / pcs



**80 x 41 x 3**

DIN 2093 - B 80  
 Gruppe/Group/Groupe 2  
 Art.Nr. 017 900

**Abmessungen /  
 Dimensions [mm]**

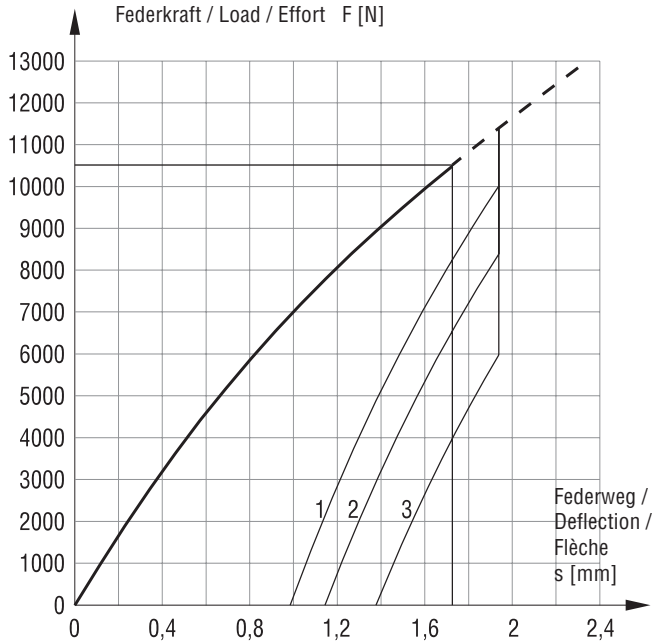
$D_e = 80$   
 $D_i = 41$   
 $t = 3,0$   
 $l_0 = 5,3$   
 $h_0 = 2,3$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,951$   
 $D_e/t = 26,67$   
 $h_0/t = 0,767$

**Gewicht / weight / poids**

84,92 kg / 1000 St. / pcs



**80 x 41 x 4**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 018 000

**Abmessungen /  
 Dimensions [mm]**

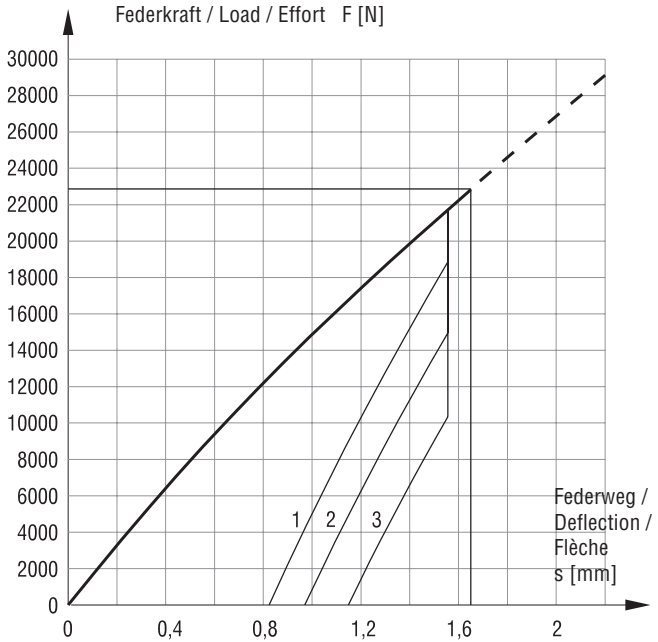
$D_e = 80$   
 $D_i = 41$   
 $t = 4,0$   
 $l_0 = 6,2$   
 $h_0 = 2,2$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,951$   
 $D_e/t = 20$   
 $h_0/t = 0,550$

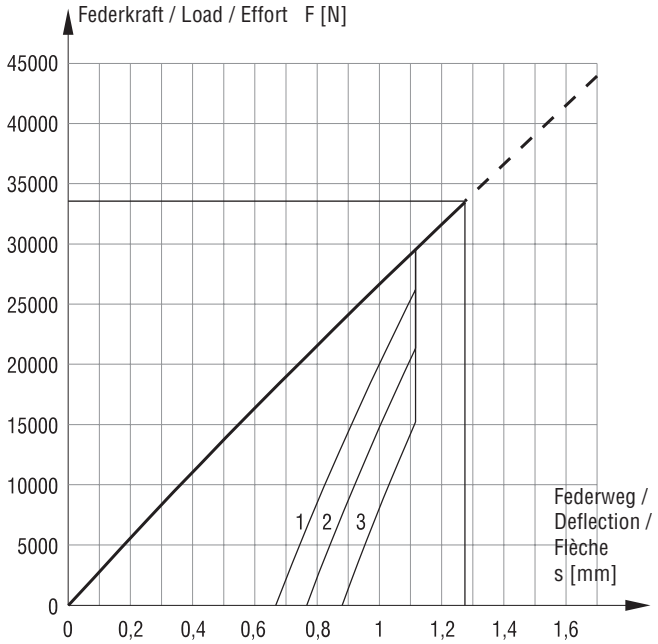
**Gewicht / weight / poids**

112,6 kg / 1000 St. / pcs

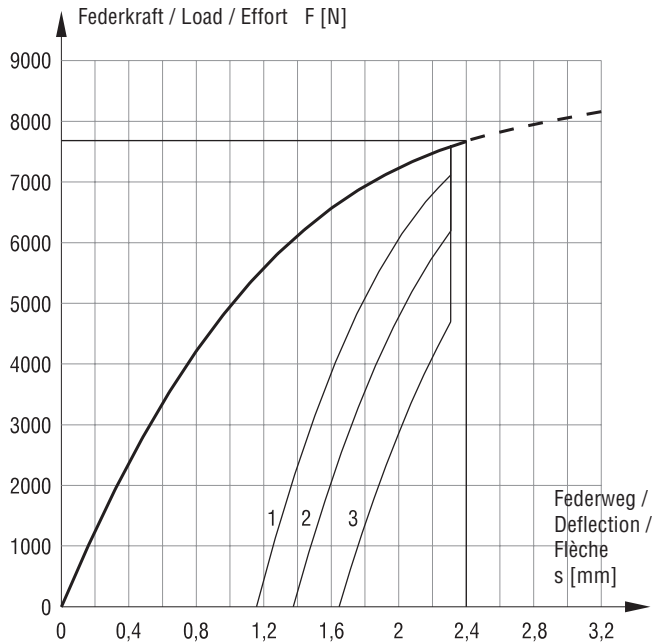




<b>80 x 41 x 5</b>
DIN 2093 - A 80 Gruppe/Group/Groupe 2 Art.Nr. 018 100
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 80 D <sub>i</sub> = 41 t = 5,0 l <sub>0</sub> = 6,7 h <sub>0</sub> = 1,7
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,951 D <sub>e</sub> /t = 16 h <sub>0</sub> /t = 0,340
<b>Gewicht / weight / poids</b> 139,5 kg / 1000 St. / pcs



<b>90 x 46 x 2,5</b>
DIN 2093 - C 90 Gruppe/Group/Groupe 2 Art.Nr. 018 200
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 90 D <sub>i</sub> = 46 t = 2,5 l <sub>0</sub> = 5,7 h <sub>0</sub> = 3,2
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,957 D <sub>e</sub> /t = 36 h <sub>0</sub> /t = 1,280
<b>Gewicht / weight / poids</b> 89,74 kg / 1000 St. / pcs



**90 x 46 x 3,5**

DIN 2093 - B 90  
 Gruppe/Group/Groupe 2  
 Art.Nr. 018 300

**Abmessungen /  
 Dimensions [mm]**

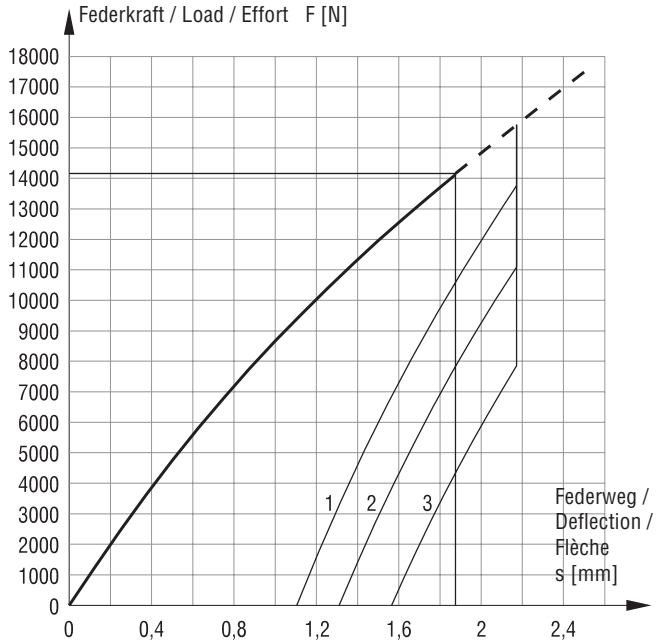
$D_e = 90$   
 $D_i = 46$   
 $t = 3,5$   
 $l_0 = 6,0$   
 $h_0 = 2,5$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,957$   
 $D_e/t = 25,71$   
 $h_0/t = 0,714$

**Gewicht / weight / poids**

125,3 kg / 1000 St. / pcs



**90 x 46 x 5**

DIN 2093 - A 90  
 Gruppe/Group/Groupe 2  
 Art.Nr. 018 400

**Abmessungen /  
 Dimensions [mm]**

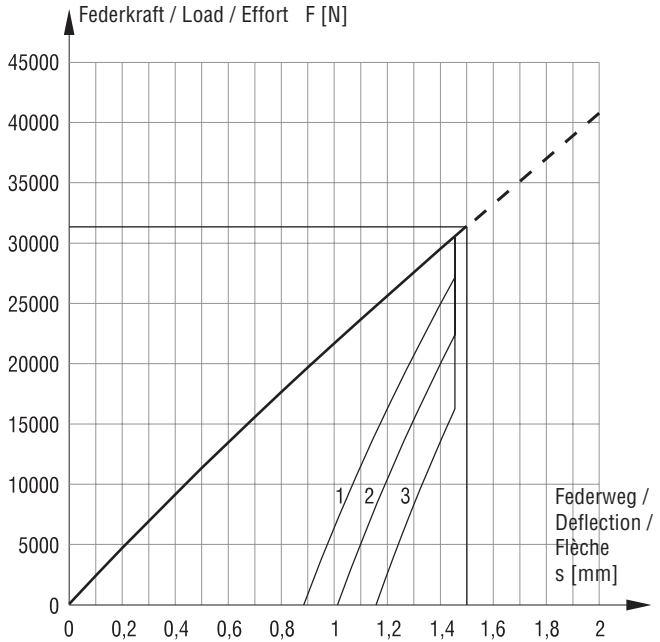
$D_e = 90$   
 $D_i = 46$   
 $t = 5,0$   
 $l_0 = 7,0$   
 $h_0 = 2,0$

**TF-Kennwerte /  
 parameters / rapports**

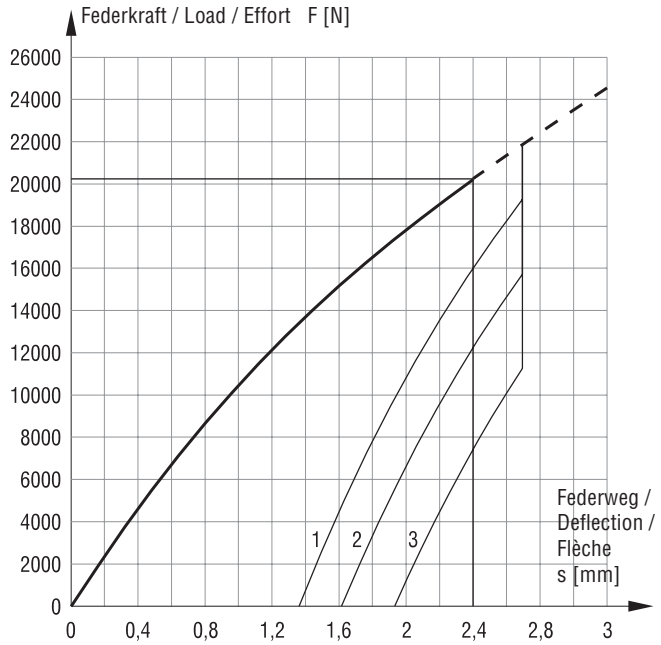
$D_e/D_i = 1,957$   
 $D_e/t = 18$   
 $h_0/t = 0,400$

**Gewicht / weight / poids**

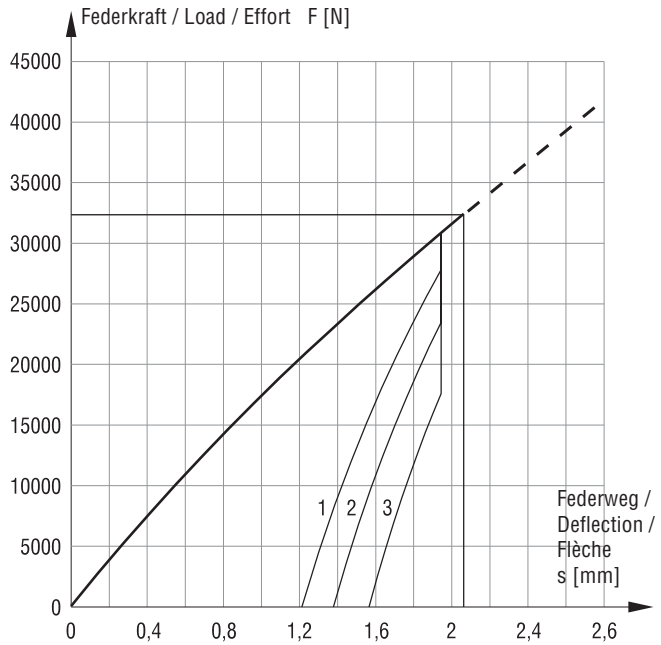
177,6 kg / 1000 St. / pcs



<b>100 x 41 x 4</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 018 500
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 100 D <sub>i</sub> = 41 t = 4,0 l <sub>0</sub> = 7,2 h <sub>0</sub> = 3,2
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,439 D <sub>e</sub> /t = 25 h <sub>0</sub> /t = 0,800
<b>Gewicht / weight / poids</b> 200,0 kg / 1000 St. / pcs



<b>100 x 41 x 5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 018 600
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 100 D <sub>i</sub> = 41 t = 5,0 l <sub>0</sub> = 7,75 h <sub>0</sub> = 2,75
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,439 D <sub>e</sub> /t = 20 h <sub>0</sub> /t = 0,550
<b>Gewicht / weight / poids</b> 248,9 kg / 1000 St. / pcs



**100 x 51 x 2,7**

DIN 2093 - C 100  
 Gruppe/Group/Groupe 2  
 Art.Nr. 018 750

**Abmessungen /  
 Dimensions [mm]**

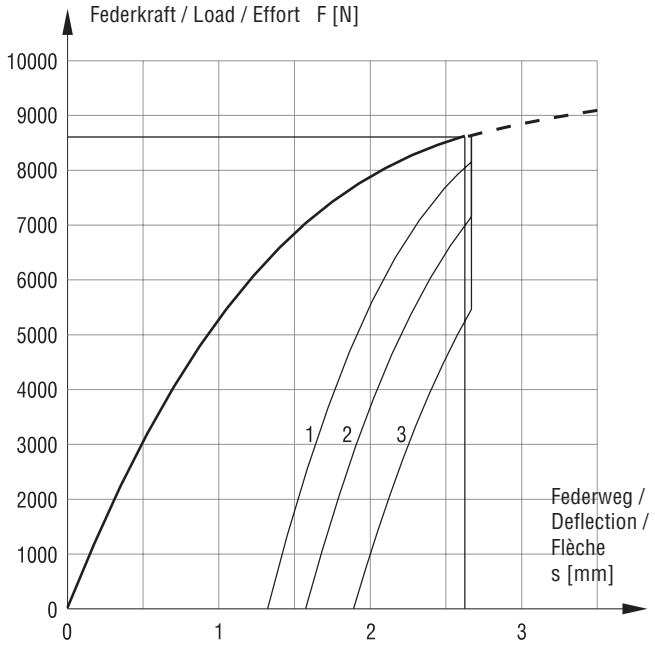
$D_e = 100$   
 $D_i = 51$   
 $t = 2,7$   
 $l_0 = 6,2$   
 $h_0 = 3,5$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,961$   
 $D_e/t = 37,04$   
 $h_0/t = 1,296$

**Gewicht / weight / poids**

120,1 kg / 1000 St. / pcs



**100 x 51 x 3,5**

DIN 2093 - B 100  
 Gruppe/Group/Groupe 2  
 Art.Nr. 018 800

**Abmessungen /  
 Dimensions [mm]**

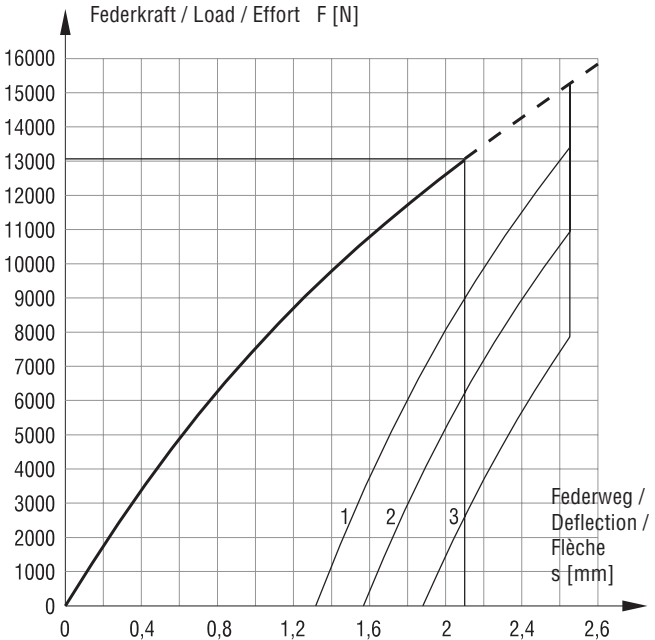
$D_e = 100$   
 $D_i = 51$   
 $t = 3,5$   
 $l_0 = 6,3$   
 $h_0 = 2,8$

**TF-Kennwerte /  
 parameters / rapports**

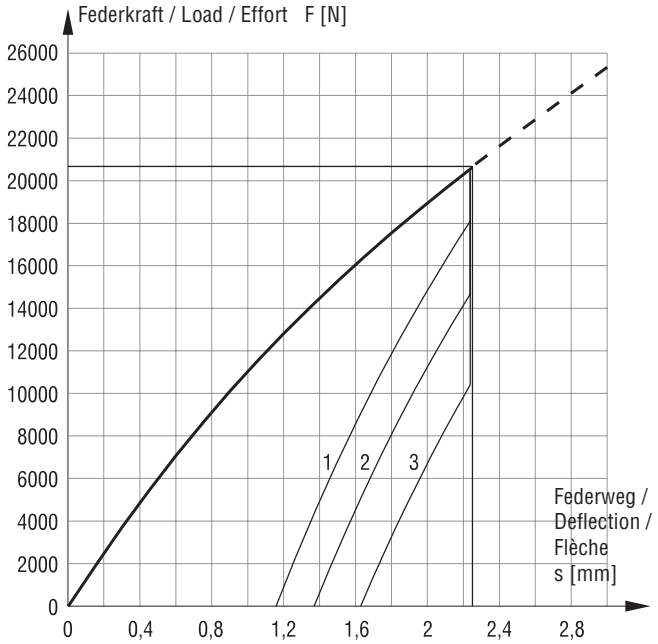
$D_e/D_i = 1,961$   
 $D_e/t = 28,57$   
 $h_0/t = 0,800$

**Gewicht / weight / poids**

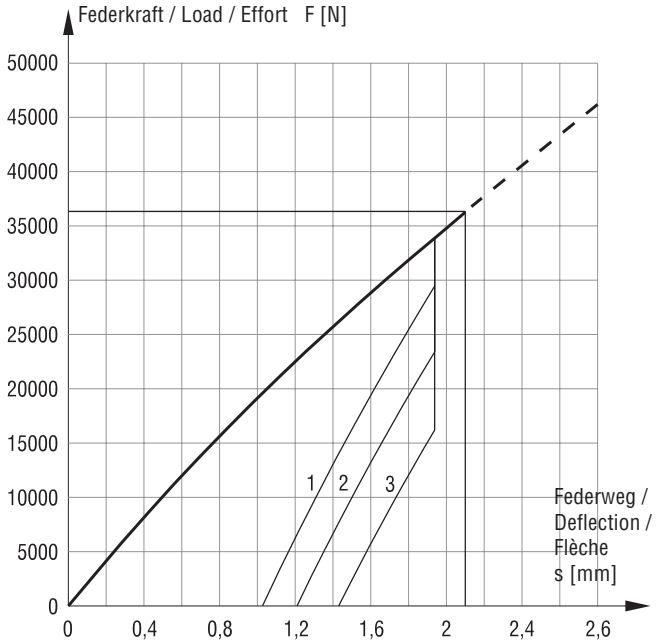
155,4 kg / 1000 St. / pcs



<b>100 x 51 x 4</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 018 900
<b>Abmessungen / Dimensions [mm]</b> $D_e = 100$ $D_i = 51$ $t = 4,0$ $l_0 = 7,0$ $h_0 = 3,0$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,961$ $D_e/t = 25$ $h_0/t = 0,750$
<b>Gewicht / weight / poids</b> 177,6 kg / 1000 St. / pcs



<b>100 x 51 x 5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 019 000
<b>Abmessungen / Dimensions [mm]</b> $D_e = 100$ $D_i = 51$ $t = 5,0$ $l_0 = 7,8$ $h_0 = 2,8$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,961$ $D_e/t = 20$ $h_0/t = 0,560$
<b>Gewicht / weight / poids</b> 221,1 kg / 1000 St. / pcs



**100 x 51 x 6**

DIN 2093 - A 100  
 Gruppe/Group/Groupe 2  
 Art.Nr. 019 150

**Abmessungen /  
 Dimensions [mm]**

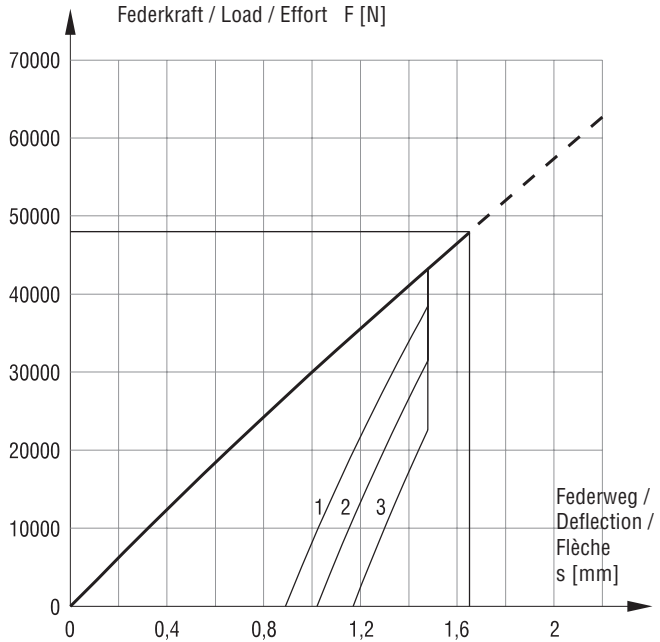
$D_e = 100$   
 $D_i = 51$   
 $t = 6,0$   
 $l_0 = 8,2$   
 $h_0 = 2,2$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,961$   
 $D_e/t = 16,67$   
 $h_0/t = 0,367$

**Gewicht / weight / poids**

262,8 kg / 1000 St. / pcs



**112 x 57 x 3**

DIN 2093 - C 112  
 Gruppe/Group/Groupe 2  
 Art.Nr. 019 250

**Abmessungen /  
 Dimensions [mm]**

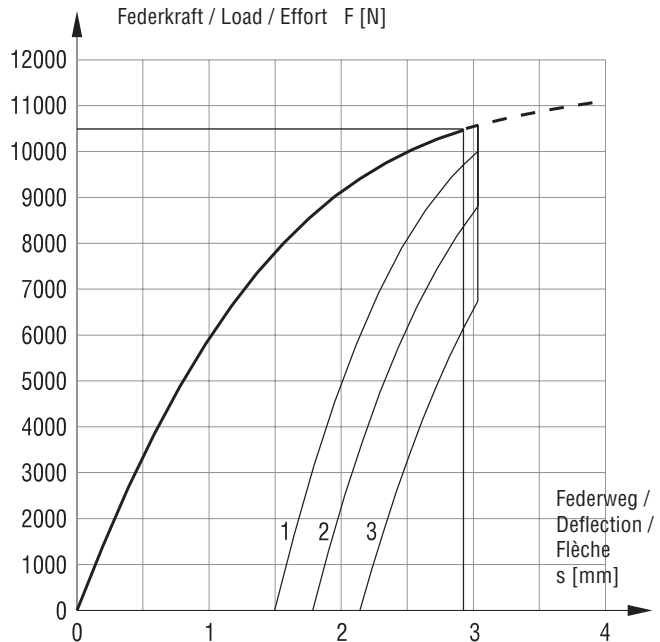
$D_e = 112$   
 $D_i = 57$   
 $t = 3,0$   
 $l_0 = 6,9$   
 $h_0 = 3,9$

**TF-Kennwerte /  
 parameters / rapports**

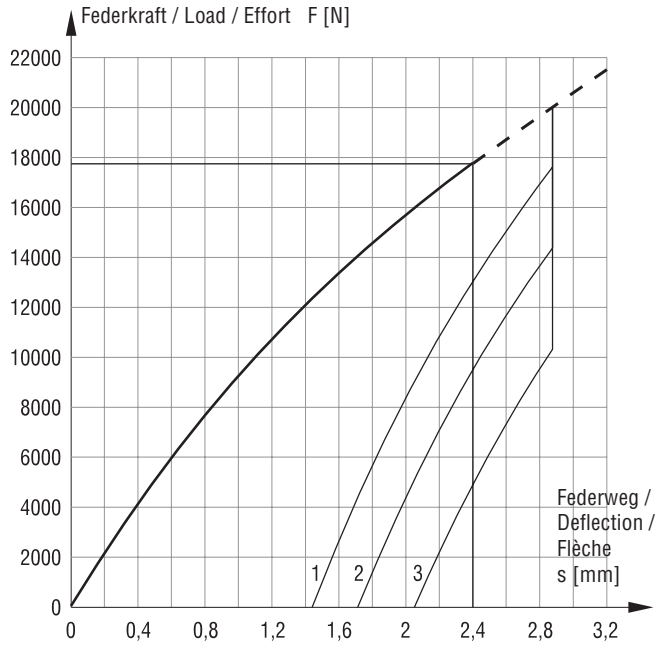
$D_e/D_i = 1,965$   
 $D_e/t = 37,33$   
 $h_0/t = 1,300$

**Gewicht / weight / poids**

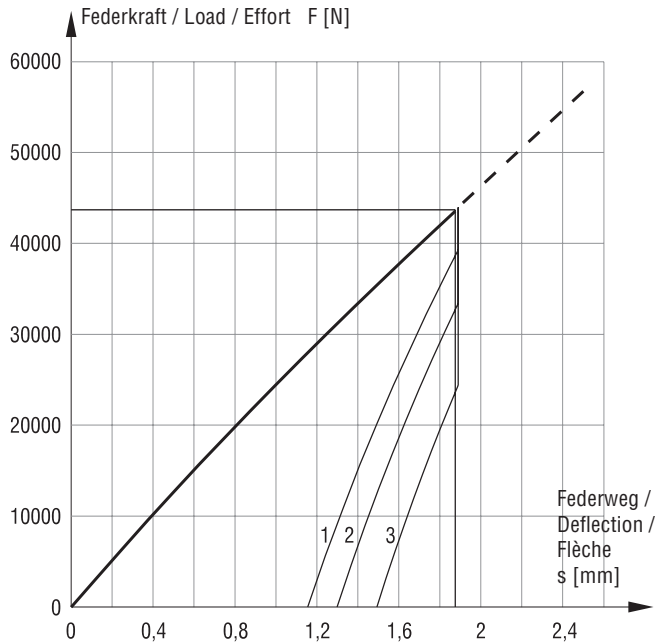
168,0 kg / 1000 St. / pcs



<b>112 x 57 x 4</b>
DIN 2093 - B 112 Gruppe/Group/Groupe 2 Art.Nr. 019 300
<b>Abmessungen / Dimensions [mm]</b> $D_e = 112$ $D_i = 57$ $t = 4,0$ $l_0 = 7,2$ $h_0 = 3,2$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,965$ $D_e/t = 28$ $h_0/t = 0,800$
<b>Gewicht / weight / poids</b> 222,7 kg / 1000 St. / pcs



<b>112 x 57 x 6</b>
DIN 2093 - A 112 Gruppe/Group/Groupe 2 Art.Nr. 019 450
<b>Abmessungen / Dimensions [mm]</b> $D_e = 112$ $D_i = 57$ $t = 6,0$ $l_0 = 8,5$ $h_0 = 2,5$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,965$ $D_e/t = 18,67$ $h_0/t = 0,417$
<b>Gewicht / weight / poids</b> 332,1 kg / 1000 St. / pcs



**125 x 41 x 4**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 019 500

**Abmessungen /  
 Dimensions [mm]**

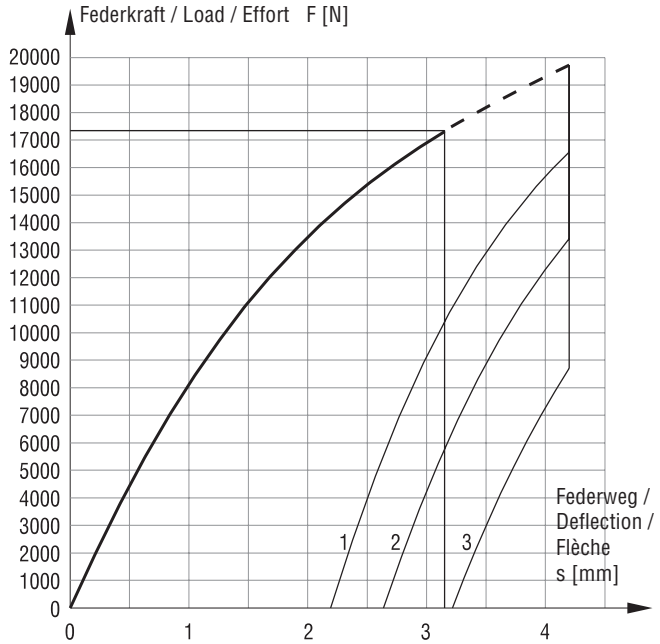
$D_e = 125$   
 $D_i = 41$   
 $t = 4,0$   
 $l_0 = 8,2$   
 $h_0 = 4,2$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 3,049$   
 $D_e/t = 31,25$   
 $h_0/t = 1,050$

**Gewicht / weight / poids**

338,1 kg / 1000 St. / pcs



**125 x 51 x 4**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 019 600

**Abmessungen /  
 Dimensions [mm]**

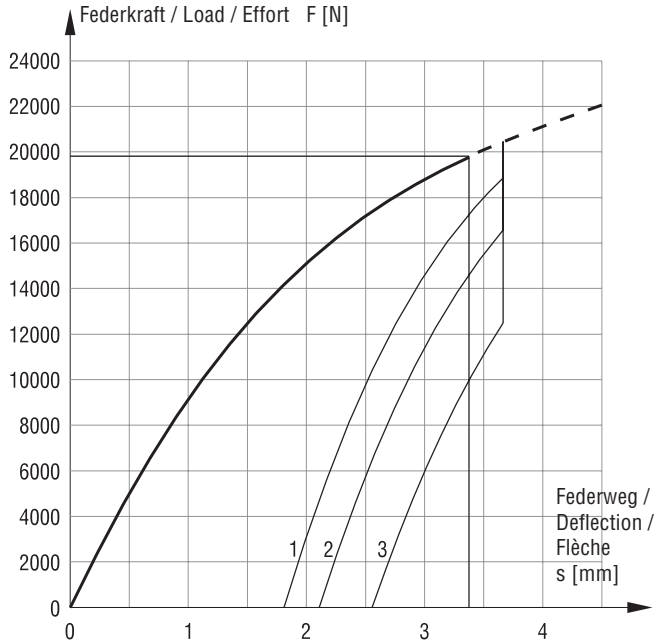
$D_e = 125$   
 $D_i = 51$   
 $t = 4,0$   
 $l_0 = 8,5$   
 $h_0 = 4,5$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,451$   
 $D_e/t = 31,25$   
 $h_0/t = 1,125$

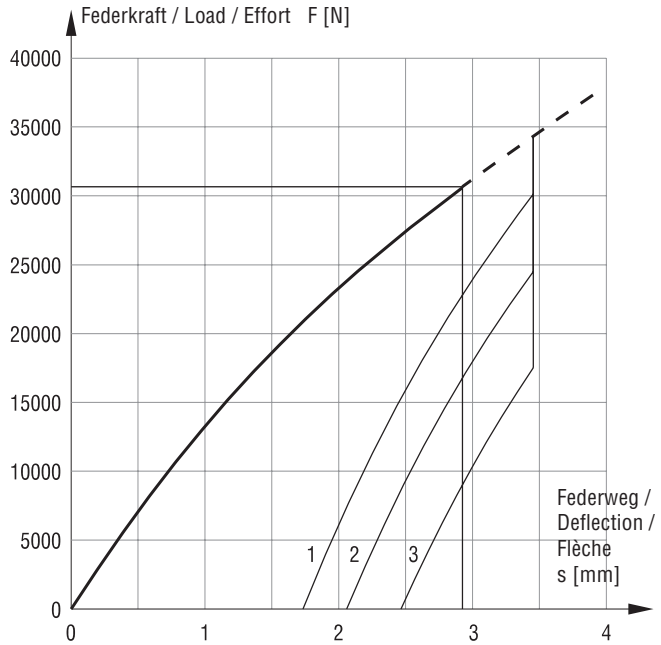
**Gewicht / weight / poids**

315,6 kg / 1000 St. / pcs

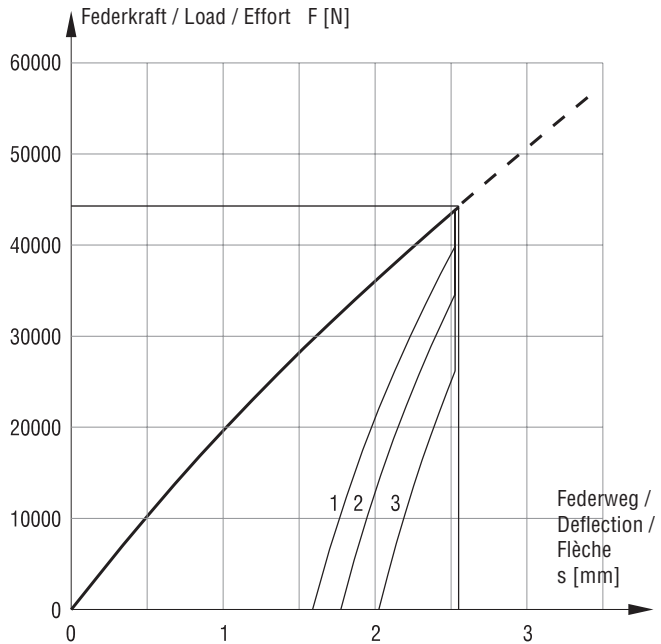




<b>125 x 51 x 5</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 019 700
<b>Abmessungen / Dimensions [mm]</b> $D_e = 125$ $D_i = 51$ $t = 5,0$ $l_0 = 8,9$ $h_0 = 3,9$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,451$ $D_e/t = 25$ $h_0/t = 0,780$
<b>Gewicht / weight / poids</b> 391,5 kg / 1000 St. / pcs



<b>125 x 51 x 6</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 019 850
<b>Abmessungen / Dimensions [mm]</b> $D_e = 125$ $D_i = 51$ $t = 6,0$ $l_0 = 9,4$ $h_0 = 3,4$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,451$ $D_e/t = 20,83$ $h_0/t = 0,567$
<b>Gewicht / weight / poids</b> 465,8 kg / 1000 St. / pcs



**125 x 61 x 5**

Schnorr Werksnorm  
Gruppe/Group/Groupe 2  
Art.Nr. 019 900

**Abmessungen /  
Dimensions [mm]**

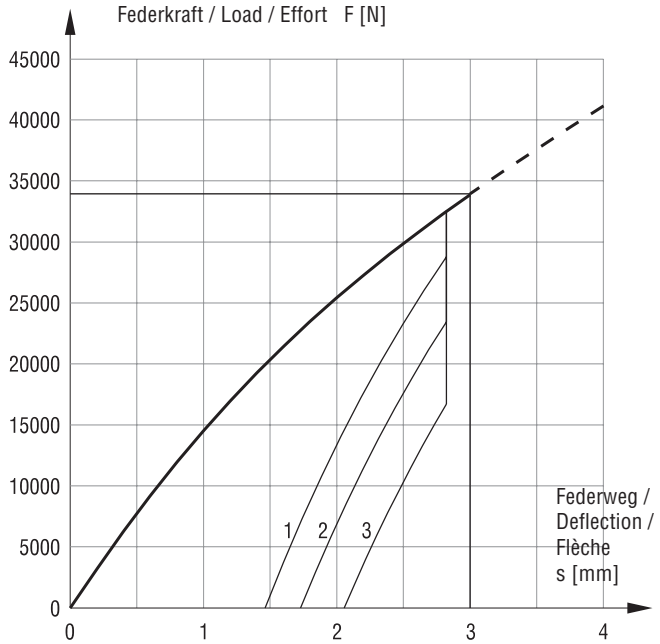
$D_e = 125$   
 $D_i = 61$   
 $t = 5,0$   
 $l_0 = 9,0$   
 $h_0 = 4,0$

**TF-Kennwerte /  
parameters / rapports**

$D_e/D_i = 2,049$   
 $D_e/t = 25$   
 $h_0/t = 0,800$

**Gewicht / weight / poids**

357,6 kg / 1000 St. / pcs



**125 x 61 x 6**

Schnorr Werksnorm  
Gruppe/Group/Groupe 2  
Art.Nr. 020 050

**Abmessungen /  
Dimensions [mm]**

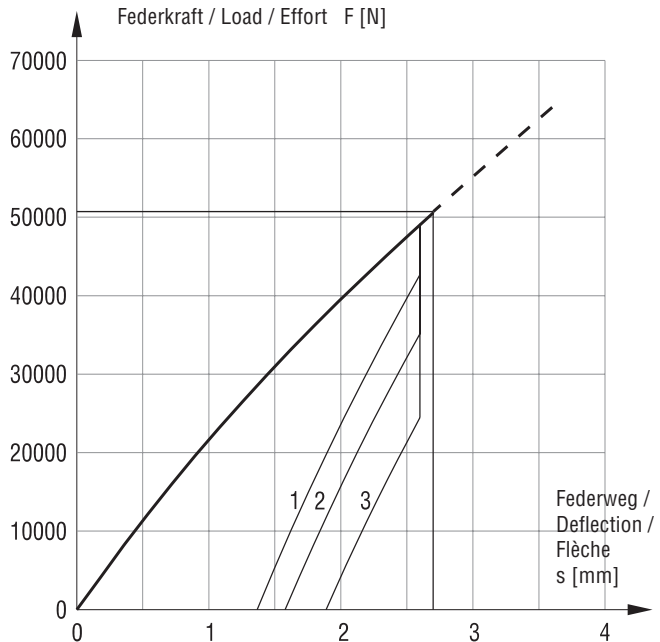
$D_e = 125$   
 $D_i = 61$   
 $t = 6,0$   
 $l_0 = 9,6$   
 $h_0 = 3,6$

**TF-Kennwerte /  
parameters / rapports**

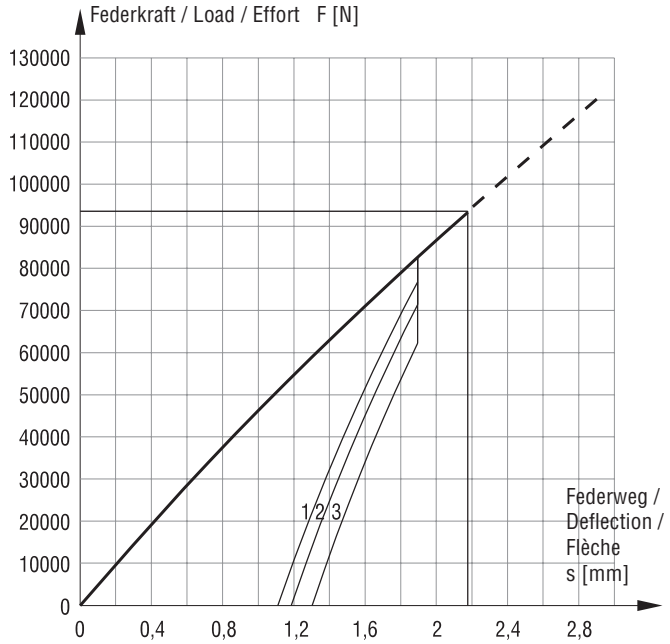
$D_e/D_i = 2,049$   
 $D_e/t = 20,83$   
 $h_0/t = 0,600$

**Gewicht / weight / poids**

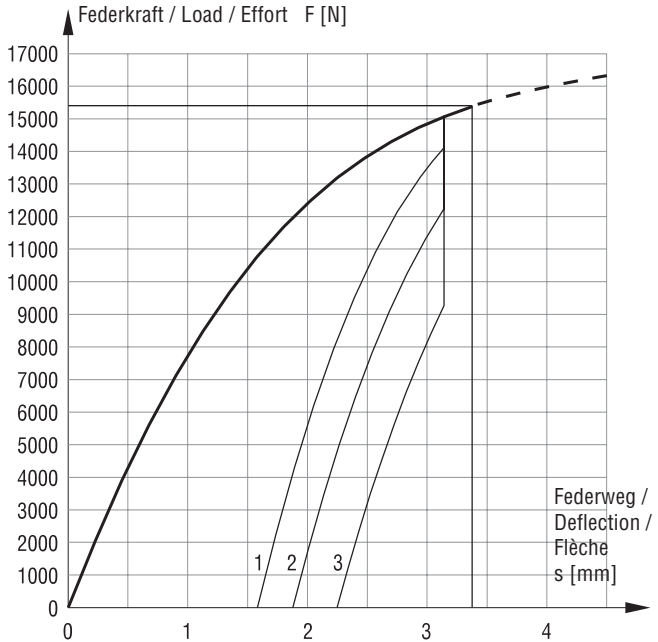
425,4 kg / 1000 St. / pcs



<b>125 x 61 x 8</b>
Schnorr Werksnorm Gruppe/Group/Groupe 3 Art.Nr. 020 100
<b>Abmessungen / Dimensions [mm]</b> $D_e = 125$ $D_i = 61$ $t = 8,0$ ( $t' = 7,5$ ) $l_0 = 10,9$ $h_0 = 2,9$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,049$ $D_e/t = 15,63$ $h_0/t' = 0,453$
<b>Gewicht / weight / poids</b> 547,3 kg / 1000 St. / pcs



<b>125 x 64 x 3,5</b>
DIN 2093 - C 125 Gruppe/Group/Groupe 2 Art.Nr. 020 200
<b>Abmessungen / Dimensions [mm]</b> $D_e = 125$ $D_i = 64$ $t = 3,5$ $l_0 = 8,0$ $h_0 = 4,5$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,953$ $D_e/t = 35,71$ $h_0/t = 1,286$
<b>Gewicht / weight / poids</b> 242,3 kg / 1000 St. / pcs



**125 x 64 x 5**

DIN 2093 - B 125  
 Gruppe/Group/Groupe 2  
 Art.Nr. 020 300

**Abmessungen /  
 Dimensions [mm]**

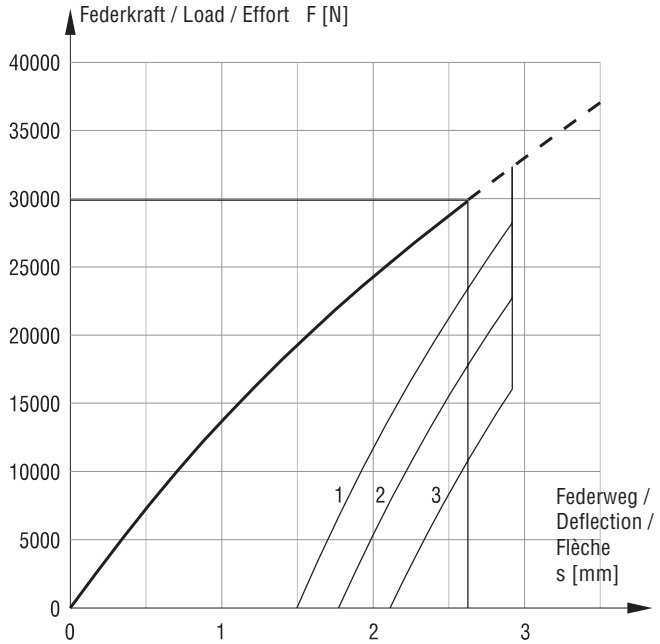
$D_e = 125$   
 $D_i = 64$   
 $t = 5,0$   
 $l_0 = 8,5$   
 $h_0 = 3,5$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,953$   
 $D_e/t = 25$   
 $h_0/t = 0,700$

**Gewicht / weight / poids**

346,2 kg / 1000 St. / pcs



**125 x 64 x 8**

DIN 2093 - A 125  
 Gruppe/Group/Groupe 3  
 Art.Nr. 020 400

**Abmessungen /  
 Dimensions [mm]**

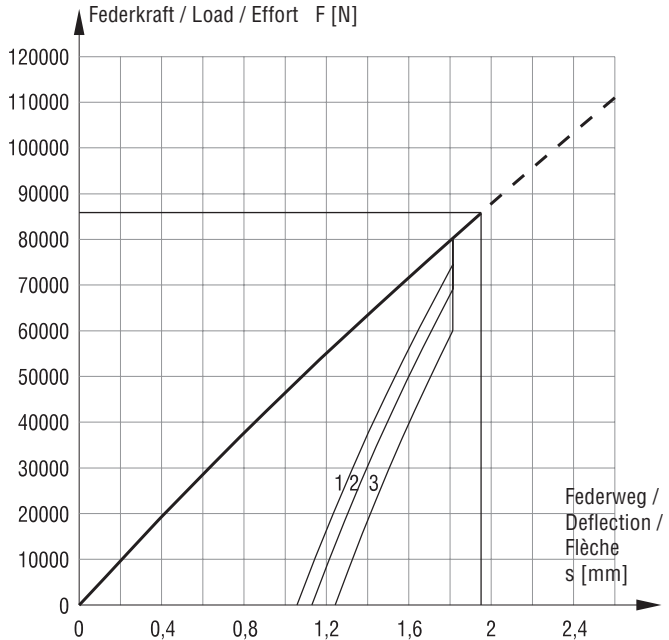
$D_e = 125$   
 $D_i = 64$   
 $t = 8,0$  ( $t' = 7,5$ )  
 $l_0 = 10,6$   
 $h_0 = 2,6$

**TF-Kennwerte /  
 parameters / rapports**

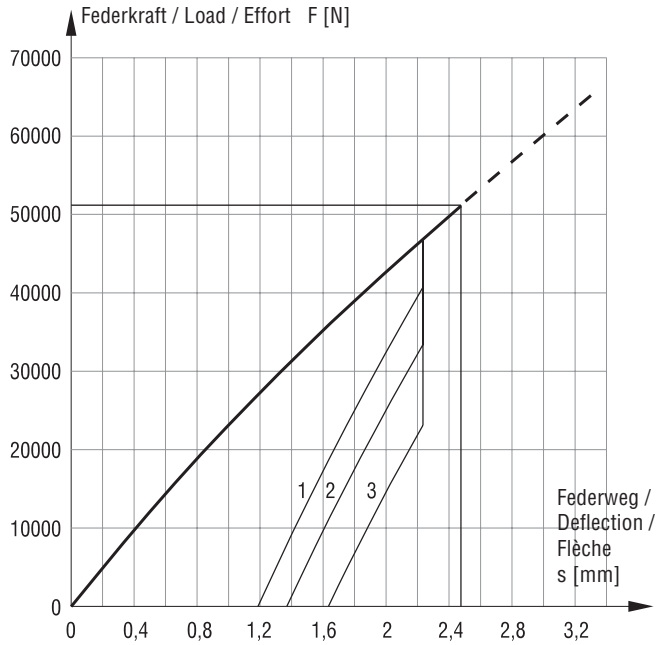
$D_e/D_i = 1,953$   
 $D_e/t = 15,63$   
 $h_0/t' = 0,413$

**Gewicht / weight / poids**

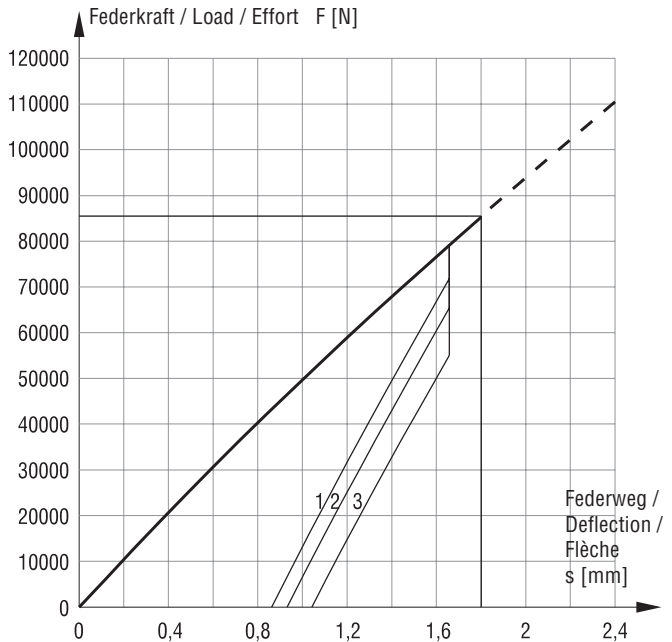
529,9 kg / 1000 St. / pcs



<b>125 x 71 x 6</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 020 550
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 125 D <sub>i</sub> = 71 t = 6,0 l <sub>0</sub> = 9,3 h <sub>0</sub> = 3,3
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,761 D <sub>e</sub> /t = 20,83 h <sub>0</sub> /t = 0,550
<b>Gewicht / weight / poids</b> 377,9 kg / 1000 St. / pcs



<b>125 x 71 x 8</b>
Schnorr Werksnorm Gruppe/Group/Groupe 3 Art.Nr. 020 600
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 125 D <sub>i</sub> = 71 t = 8,0 (t' = 7,4) l <sub>0</sub> = 10,4 h <sub>0</sub> = 2,4
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,761 D <sub>e</sub> /t = 15,63 h <sub>0</sub> /t' = 0,405
<b>Gewicht / weight / poids</b> 479,6 kg / 1000 St. / pcs



**125 x 71 x 10**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 3  
 Art.Nr. 020 700

**Abmessungen /  
 Dimensions [mm]**

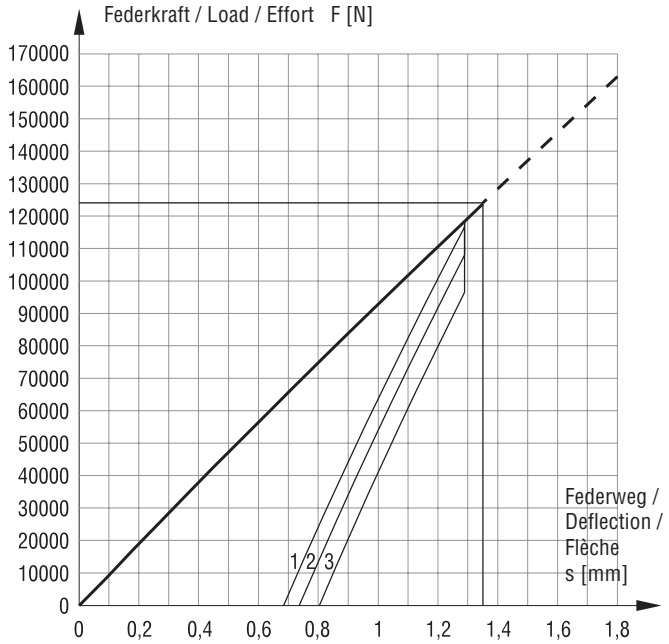
$D_e = 125$   
 $D_i = 71$   
 $t = 10$  ( $t' = 9,2$ )  
 $l_0 = 11,8$   
 $h_0 = 1,8$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,761$   
 $D_e/t = 12,5$   
 $h_0/t' = 0,283$

**Gewicht / weight / poids**

596,3 kg / 1000 St. / pcs



**140 x 72 x 3,8**

DIN 2093 - C 140  
 Gruppe/Group/Groupe 2  
 Art.Nr. 020 850

**Abmessungen /  
 Dimensions [mm]**

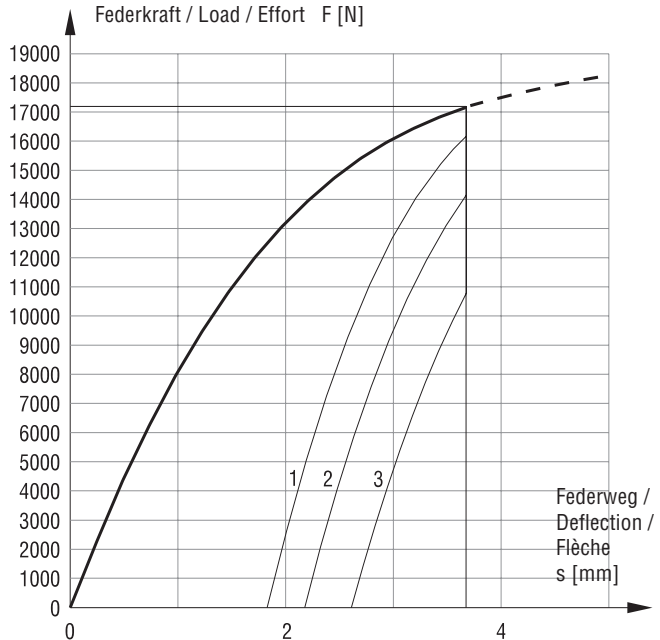
$D_e = 140$   
 $D_i = 72$   
 $t = 3,8$   
 $l_0 = 8,7$   
 $h_0 = 4,9$

**TF-Kennwerte /  
 parameters / rapports**

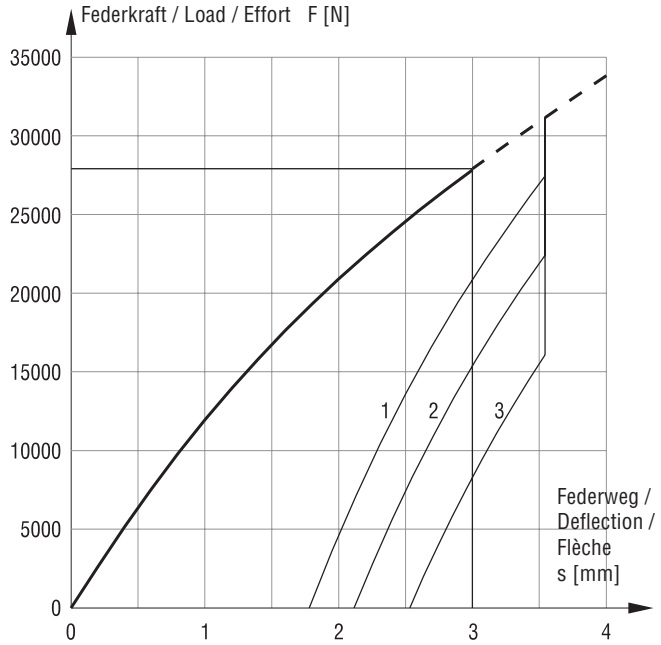
$D_e/D_i = 1,944$   
 $D_e/t = 36,84$   
 $h_0/t = 1,289$

**Gewicht / weight / poids**

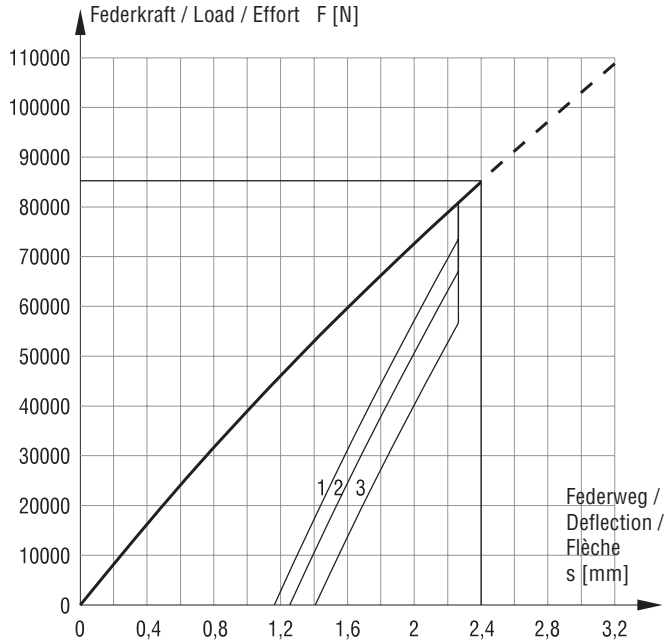
329,7 kg / 1000 St. / pcs



<b>140 x 72 x 5</b>
DIN 2093 - B 140 Gruppe/Group/Groupe 2 Art.Nr. 020 900
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 140 D <sub>i</sub> = 72 t = 5,0 l <sub>0</sub> = 9,0 h <sub>0</sub> = 4,0
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,944 D <sub>e</sub> /t = 28 h <sub>0</sub> /t = 0,800
<b>Gewicht / weight / poids</b> 433,2 kg / 1000 St. / pcs



<b>140 x 72 x 8</b>
DIN 2093 - A 140 Gruppe/Group/Groupe 3 Art.Nr. 021 000
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 140 D <sub>i</sub> = 72 t = 8,0 (t' = 7,5) l <sub>0</sub> = 11,2 h <sub>0</sub> = 3,2
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,944 D <sub>e</sub> /t = 17,50 h <sub>0</sub> /t' = 0,493
<b>Gewicht / weight / poids</b> 663,0 kg / 1000 St. / pcs



**150 x 61 x 5**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 021 100

**Abmessungen /  
 Dimensions [mm]**

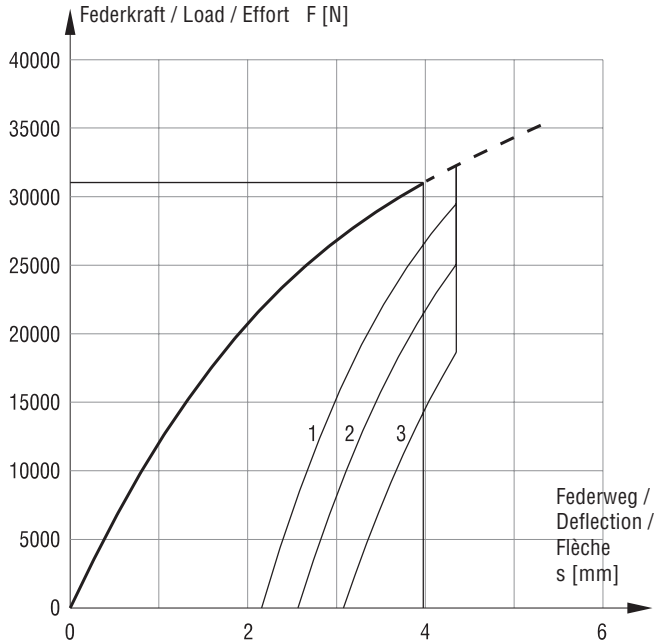
$D_e = 150$   
 $D_i = 61$   
 $t = 5,0$   
 $l_0 = 10,3$   
 $h_0 = 5,3$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,459$   
 $D_e/t = 30$   
 $h_0/t = 1,060$

**Gewicht / weight / poids**

565,0 kg / 1000 St. / pcs



**150 x 61 x 6**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 2  
 Art.Nr. 021 250

**Abmessungen /  
 Dimensions [mm]**

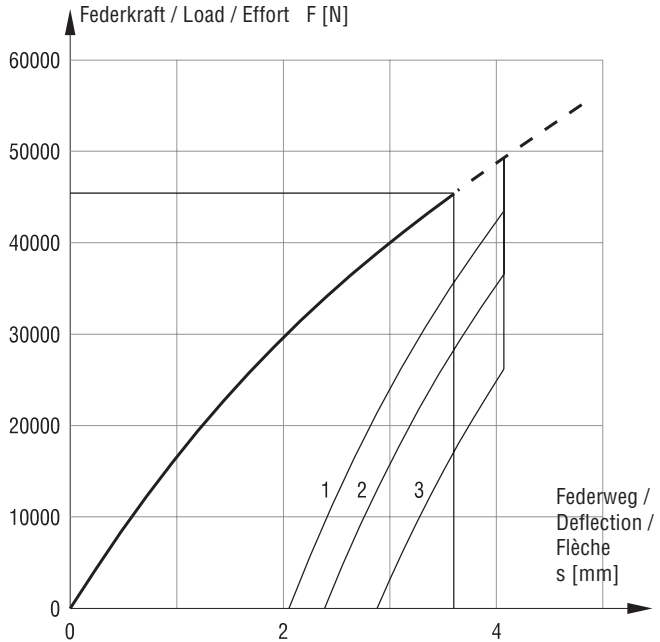
$D_e = 150$   
 $D_i = 61$   
 $t = 6,0$   
 $l_0 = 10,8$   
 $h_0 = 4,8$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,459$   
 $D_e/t = 25$   
 $h_0/t = 0,800$

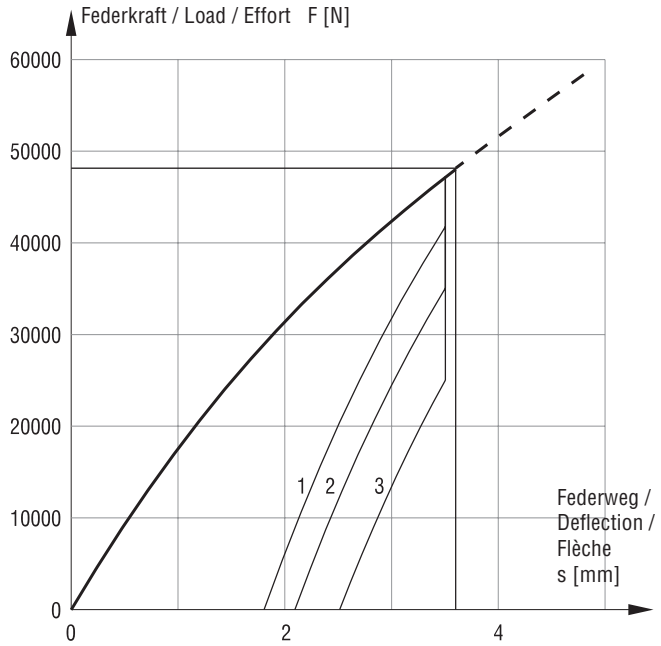
**Gewicht / weight / poids**

676,8 kg / 1000 St. / pcs

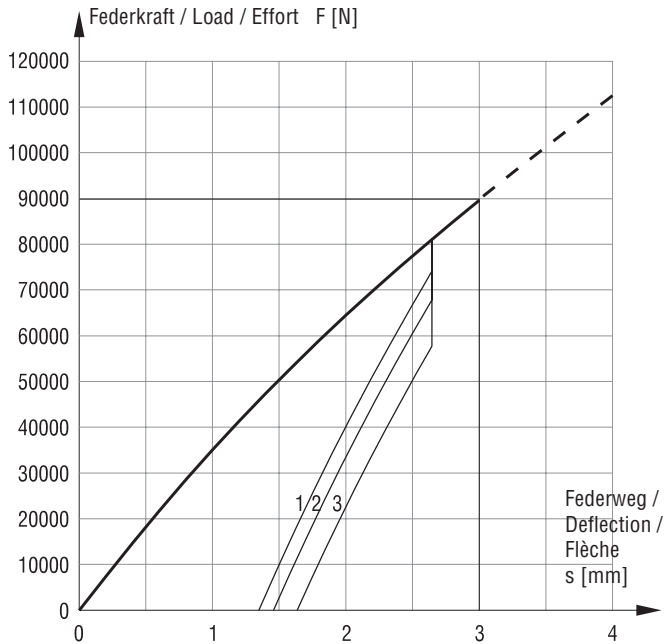




<b>150 x 71 x 6</b>
Schnorr Werksnorm Gruppe/Group/Groupe 2 Art.Nr. 021 350
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 150 D <sub>i</sub> = 71 t = 6,0 l <sub>0</sub> = 10,8 h <sub>0</sub> = 4,8
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,113 D <sub>e</sub> /t = 25 h <sub>0</sub> /t = 0,800
<b>Gewicht / weight / poids</b> 628,9 kg / 1000 St. / pcs



<b>150 x 71 x 8</b>
Schnorr Werksnorm Gruppe/Group/Groupe 3 Art.Nr. 021 400
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 150 D <sub>i</sub> = 71 t = 8,0 (t' = 7,5) l <sub>0</sub> = 12,0 h <sub>0</sub> = 4,0
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,113 D <sub>e</sub> /t = 18,75 h <sub>0</sub> /t' = 0,600
<b>Gewicht / weight / poids</b> 803,6 kg / 1000 St. / pcs



**150 x 81 x 8**

Schnorr Werksnorm  
Gruppe/Group/Groupe 3  
Art.Nr. 021 500

**Abmessungen /  
Dimensions [mm]**

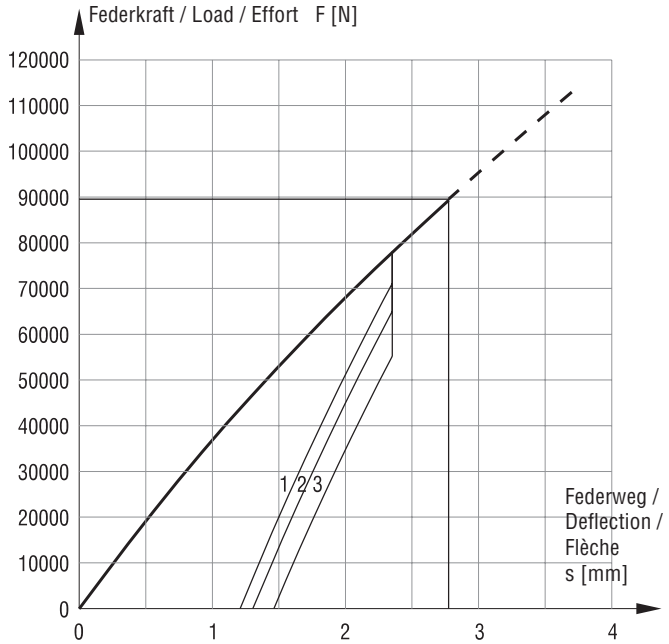
$D_e = 150$   
 $D_i = 81$   
 $t = 8,0$  ( $t' = 7,5$ )  
 $l_0 = 11,7$   
 $h_0 = 3,7$

**TF-Kennwerte /  
parameters / rapports**

$D_e/D_i = 1,852$   
 $D_e/t = 18,75$   
 $h_0/t' = 0,560$

**Gewicht / weight / poids**

732,9 kg / 1000 St. / pcs



**150 x 81 x 10**

Schnorr Werksnorm  
Gruppe/Group/Groupe 3  
Art.Nr. 021 600

**Abmessungen /  
Dimensions [mm]**

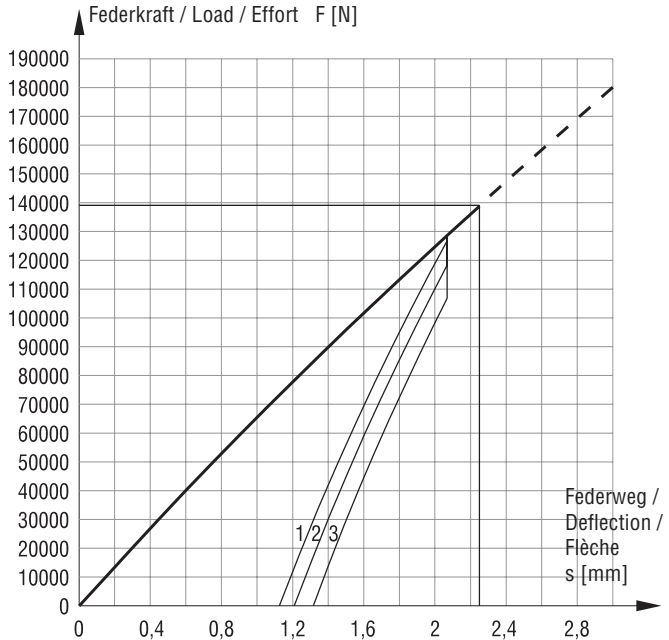
$D_e = 150$   
 $D_i = 81$   
 $t = 10$  ( $t' = 9,3$ )  
 $l_0 = 13,0$   
 $h_0 = 3,0$

**TF-Kennwerte /  
parameters / rapports**

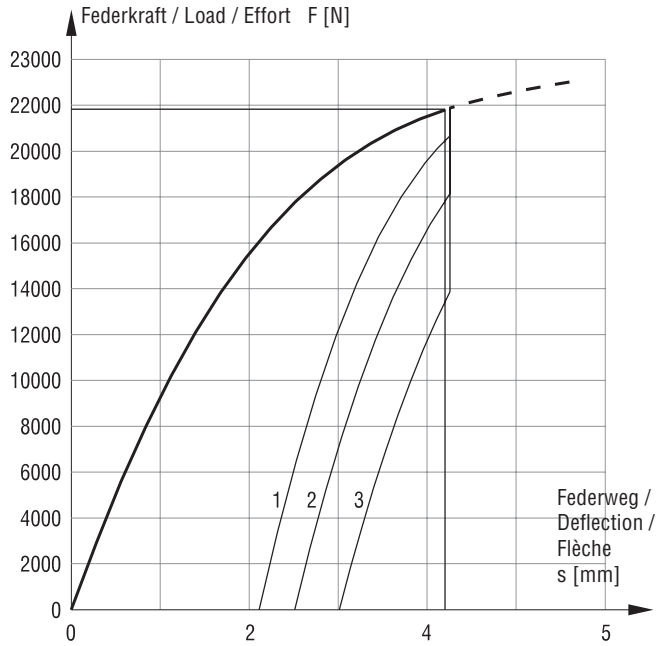
$D_e/D_i = 1,852$   
 $D_e/t = 15$   
 $h_0/t' = 0,398$

**Gewicht / weight / poids**

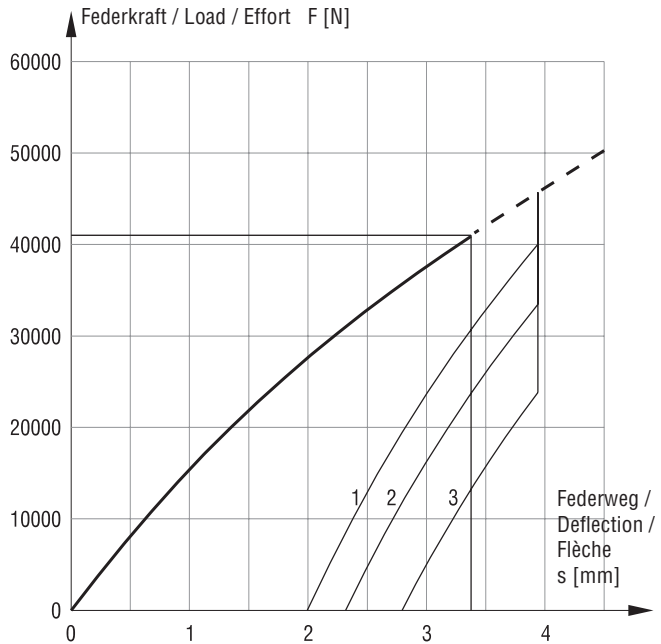
908,8 kg / 1000 St. / pcs



<b>160 x 82 x 4,3</b>
DIN 2093 - C 160 Gruppe/Group/Groupe 2 Art.Nr. 021650
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 160 D <sub>i</sub> = 82 t = 4,3 l <sub>0</sub> = 9,9 h <sub>0</sub> = 5,6
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,951 D <sub>e</sub> /t = 37,21 h <sub>0</sub> /t = 1,302
<b>Gewicht / weight / poids</b> 492,2 kg / 1000 St. / pcs



<b>160 x 82 x 6</b>
DIN 2093 - B 160 Gruppe/Group/Groupe 2 Art.Nr. 021 750
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 160 D <sub>i</sub> = 82 t = 6,0 l <sub>0</sub> = 10,5 h <sub>0</sub> = 4,5
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,951 D <sub>e</sub> /t = 26,67 h <sub>0</sub> /t = 0,750
<b>Gewicht / weight / poids</b> 679,8 kg / 1000 St. / pcs



**160 x 82 x 10**

DIN 2093 - A 160  
 Gruppe/Group/Groupe 3  
 Art.Nr. 021 800

**Abmessungen /  
 Dimensions [mm]**

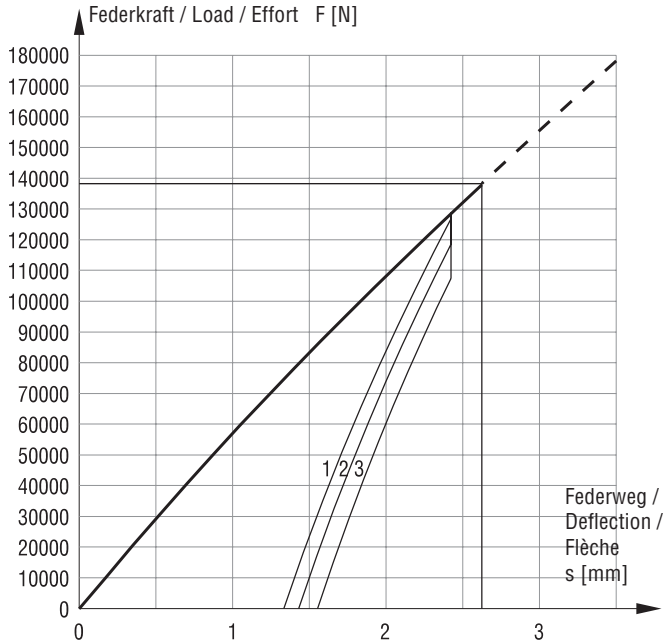
$D_e = 160$   
 $D_i = 82$   
 $t = 10$  ( $t' = 9,4$ )  
 $l_0 = 13,5$   
 $h_0 = 3,5$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,951$   
 $D_e/t = 16$   
 $h_0/t' = 0,436$

**Gewicht / weight / poids**

1089 kg / 1000 St. / pcs



**180 x 92 x 4,8**

DIN 2093 - C 180  
 Gruppe/Group/Groupe 2  
 Art.Nr. 021 850

**Abmessungen /  
 Dimensions [mm]**

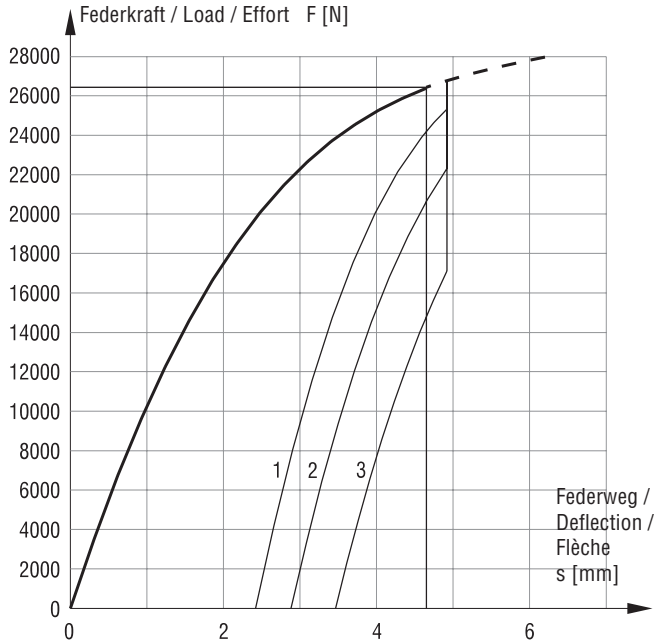
$D_e = 180$   
 $D_i = 92$   
 $t = 4,8$   
 $l_0 = 11,0$   
 $h_0 = 6,2$

**TF-Kennwerte /  
 parameters / rapports**

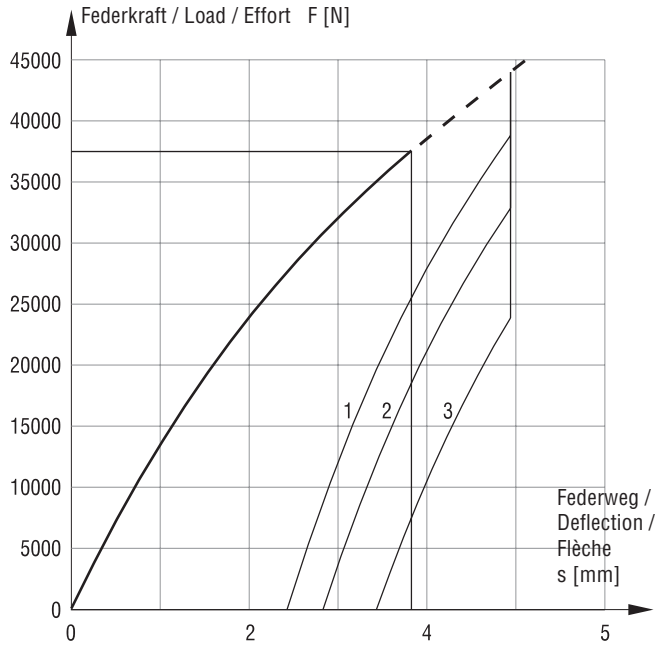
$D_e/D_i = 1,957$   
 $D_e/t = 37,5$   
 $h_0/t = 1,292$

**Gewicht / weight / poids**

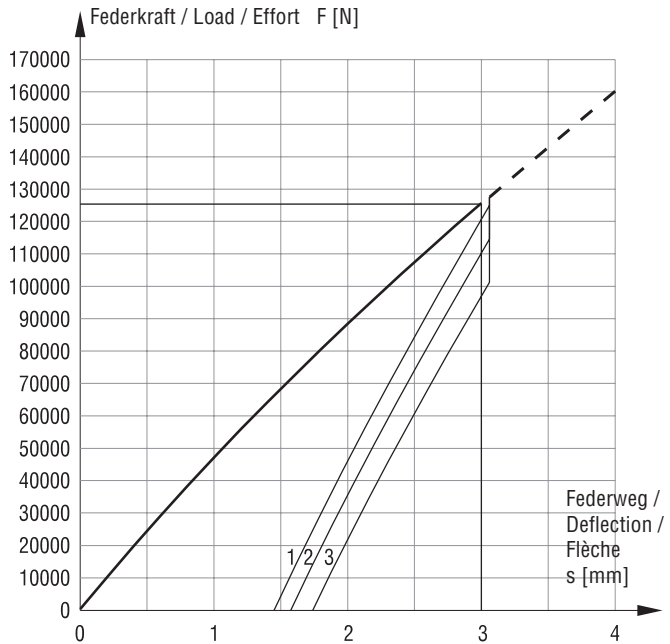
705,3 kg / 1000 St. / pcs



<b>180 x 92 x 6</b>
DIN 2093 - B 180 Gruppe/Group/Groupe 2 Art.Nr. 021 950
<b>Abmessungen / Dimensions [mm]</b> $D_e = 180$ $D_i = 92$ $t = 6,0$ $l_0 = 11,1$ $h_0 = 5,1$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,957$ $D_e/t = 30$ $h_0/t = 0,850$
<b>Gewicht / weight / poids</b> 862,5 kg / 1000 St. / pcs



<b>180 x 92 x 10</b>
DIN 2093 - A 180 Gruppe/Group/Groupe 3 Art.Nr. 022 000
<b>Abmessungen / Dimensions [mm]</b> $D_e = 180$ $D_i = 92$ $t = 10$ ( $t' = 9,4$ ) $l_0 = 14,0$ $h_0 = 4,0$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,957$ $D_e/t = 18$ $h_0/t' = 0,489$
<b>Gewicht / weight / poids</b> 1381 kg / 1000 St. / pcs



**200 x 82 x 8**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 3  
 Art.Nr. 022 100

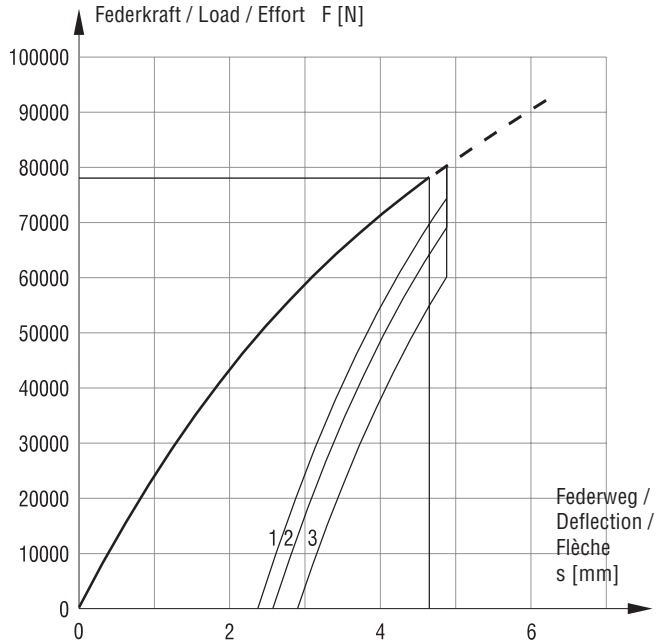
**Abmessungen /  
 Dimensions [mm]**

$D_e = 200$   
 $D_i = 82$   
 $t = 8,0$  ( $t' = 7,6$ )  
 $l_0 = 14,2$   
 $h_0 = 6,2$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,439$   
 $D_e/t = 25$   
 $h_0/t' = 0,868$

**Gewicht / weight / poids**  
 1554 kg / 1000 St. / pcs



**200 x 82 x 10**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 3  
 Art.Nr. 022 200

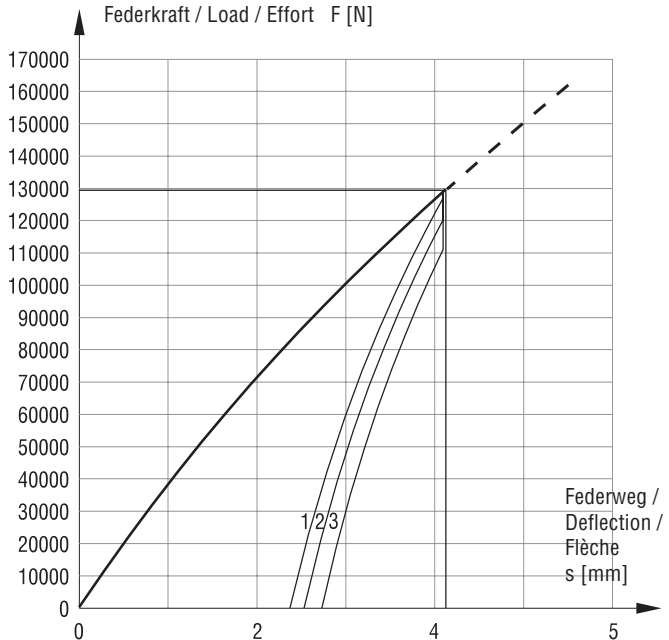
**Abmessungen /  
 Dimensions [mm]**

$D_e = 200$   
 $D_i = 82$   
 $t = 10$  ( $t' = 9,6$ )  
 $l_0 = 15,5$   
 $h_0 = 5,5$

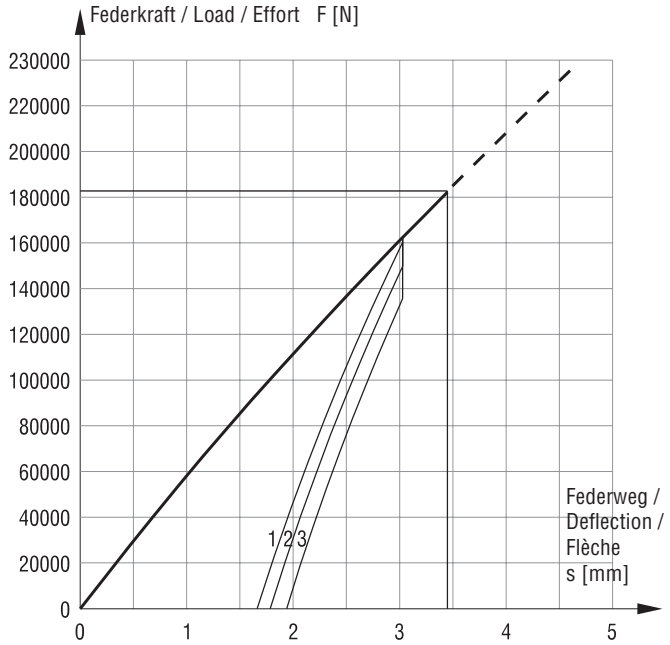
**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,439$   
 $D_e/t = 20$   
 $h_0/t' = 0,615$

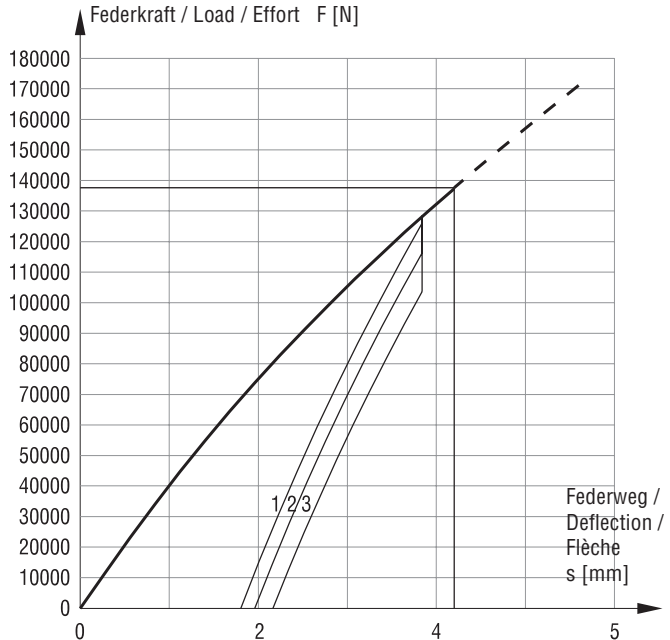
**Gewicht / weight / poids**  
 1962 kg / 1000 St. / pcs



<b>200 x 82 x 12</b>
Schnorr Werksnorm Gruppe/Group/Groupe 3 Art.Nr. 022 300
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 200 D <sub>i</sub> = 82 t = 12 (t' = 11,5) l <sub>0</sub> = 16,6 h <sub>0</sub> = 4,6
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,439 D <sub>e</sub> /t = 16,67 h <sub>0</sub> /t' = 0,443
<b>Gewicht / weight / poids</b> 2351 kg / 1000 St. / pcs



<b>200 x 92 x 10</b>
Schnorr Werksnorm Gruppe/Group/Groupe 3 Art.Nr. 022 400
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 200 D <sub>i</sub> = 92 t = 10 (t' = 9,5) l <sub>0</sub> = 15,6 h <sub>0</sub> = 5,6
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 2,174 D <sub>e</sub> /t = 20 h <sub>0</sub> /t' = 0,642
<b>Gewicht / weight / poids</b> 1840 kg / 1000 St. / pcs



**200 x 92 x 12**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 3  
 Art.Nr. 022 500

**Abmessungen /  
 Dimensions [mm]**

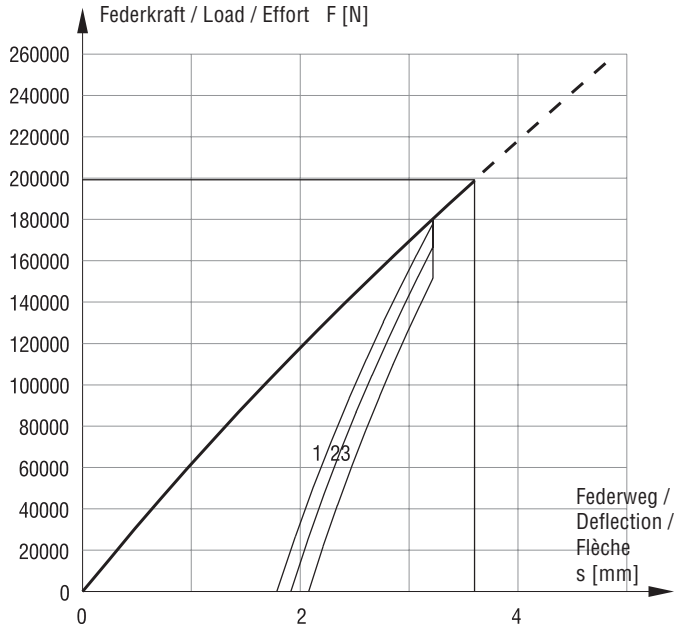
$D_e = 200$   
 $D_i = 92$   
 $t = 12$  ( $t' = 11,4$ )  
 $l_0 = 16,8$   
 $h_0 = 4,8$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,174$   
 $D_e/t = 16,67$   
 $h_0/t' = 0,474$

**Gewicht / weight / poids**

2208 kg / 1000 St. / pcs



**200 x 92 x 14**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 3  
 Art.Nr. 022 600

**Abmessungen /  
 Dimensions [mm]**

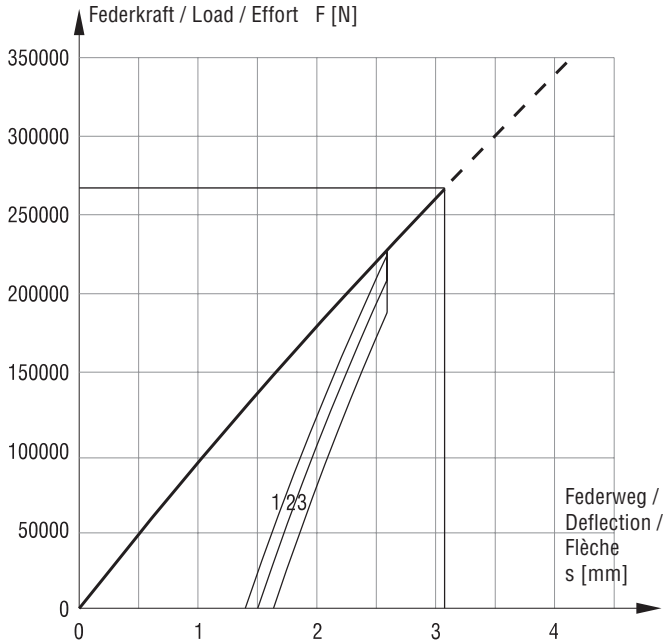
$D_e = 200$   
 $D_i = 92$   
 $t = 14$  ( $t' = 13,1$ )  
 $l_0 = 18,1$   
 $h_0 = 4,1$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,174$   
 $D_e/t = 14,29$   
 $h_0/t' = 0,382$

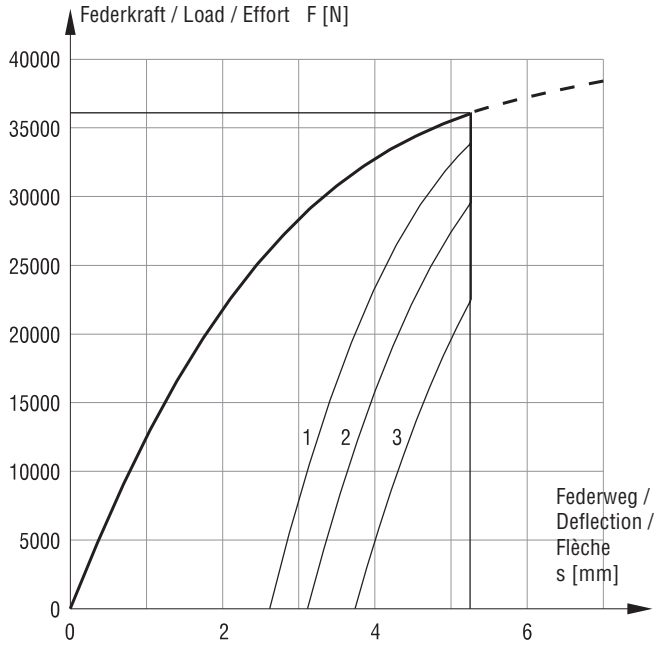
**Gewicht / weight / poids**

2537 kg / 1000 St. / pcs

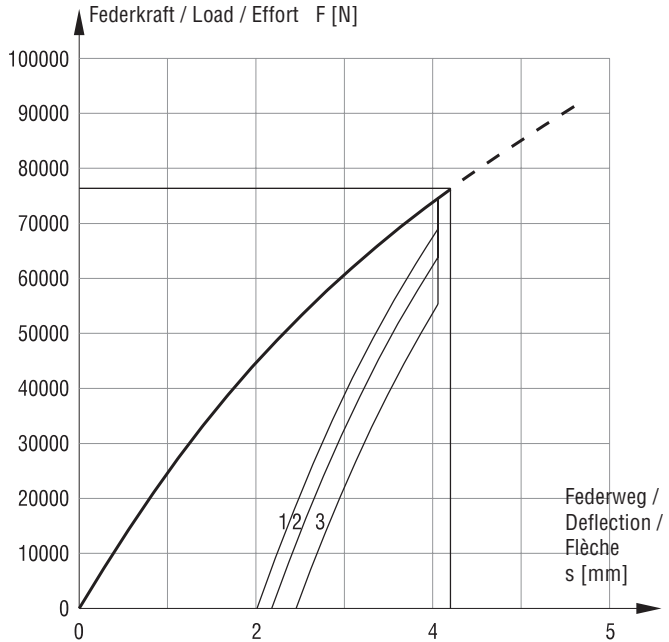




<b>200 x 102 x 5,5</b>
DIN 2093 - C 200 Gruppe/Group/Groupe 2 Art.Nr. 022 650
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 200 D <sub>i</sub> = 102 t = 5,5 l <sub>0</sub> = 12,5 h <sub>0</sub> = 7,0
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,961 D <sub>e</sub> /t = 36,36 h <sub>0</sub> /t = 1,273
<b>Gewicht / weight / poids</b> 999,3 kg / 1000 St. / pcs



<b>200 x 102 x 8</b>
DIN 2093 - B 200 Gruppe/Group/Groupe 3 Art.Nr. 022 700
<b>Abmessungen / Dimensions [mm]</b> D <sub>e</sub> = 200 D <sub>i</sub> = 102 t = 8,0 (t' = 7,5) l <sub>0</sub> = 13,6 h <sub>0</sub> = 5,6
<b>TF-Kennwerte / parameters / rapports</b> D <sub>e</sub> /D <sub>i</sub> = 1,961 D <sub>e</sub> /t = 25 h <sub>0</sub> /t' = 0,813
<b>Gewicht / weight / poids</b> 1363 kg / 1000 St. / pcs



**200 x 102 x 10**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 3  
 Art.Nr. 022 800

**Abmessungen /  
 Dimensions [mm]**

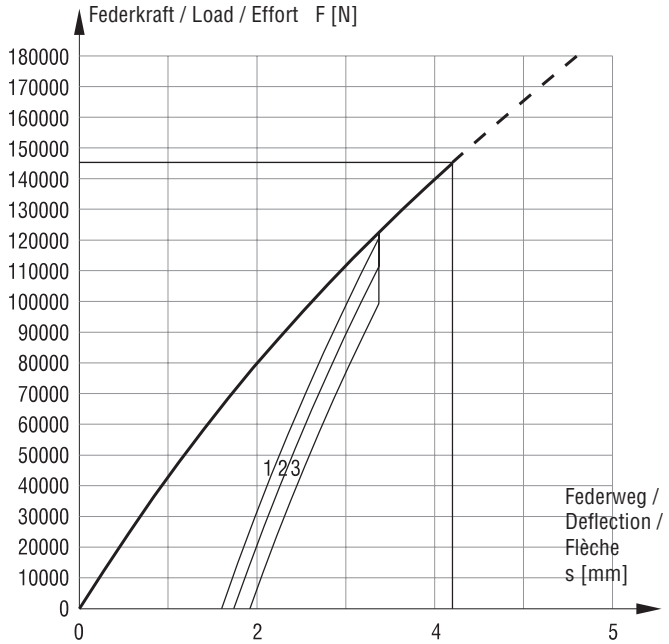
$D_e = 200$   
 $D_i = 102$   
 $t = 10$  ( $t' = 9,4$ )  
 $l_0 = 15,6$   
 $h_0 = 5,6$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,961$   
 $D_e/t = 20$   
 $h_0/t' = 0,660$

**Gewicht / weight / poids**

1708 kg / 1000 St. / pcs



**200 x 102 x 12**

DIN 2093 - A 200  
 Gruppe/Group/Groupe 3  
 Art.Nr. 022 900

**Abmessungen /  
 Dimensions [mm]**

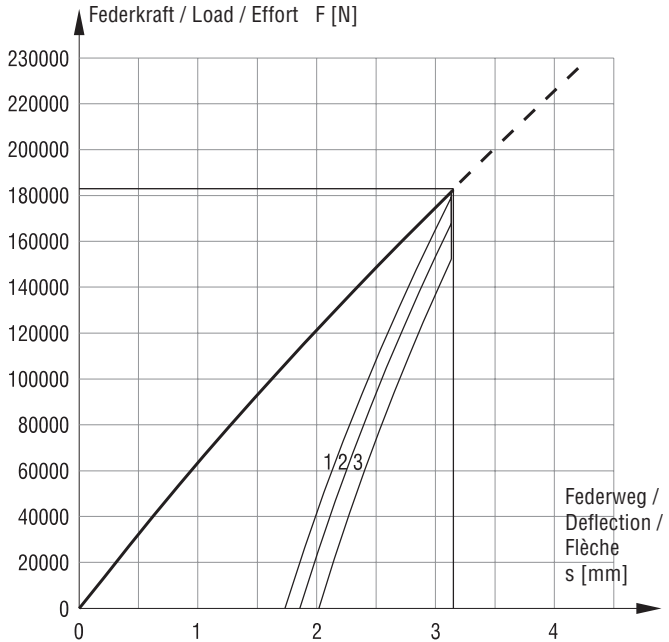
$D_e = 200$   
 $D_i = 102$   
 $t = 12$  ( $t' = 11,25$ )  
 $l_0 = 16,2$   
 $h_0 = 4,2$

**TF-Kennwerte /  
 parameters / rapports**

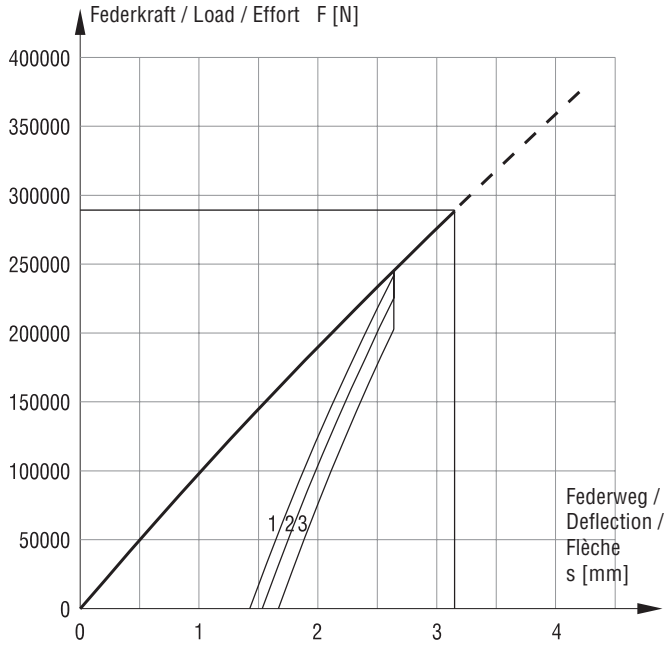
$D_e/D_i = 1,961$   
 $D_e/t = 16,67$   
 $h_0/t' = 0,440$

**Gewicht / weight / poids**

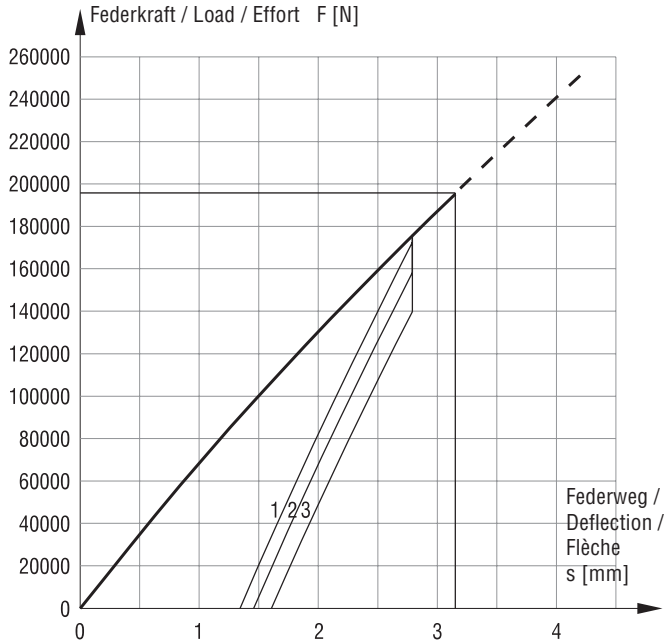
2044 kg / 1000 St. / pcs



<b>200 x 102 x 14</b>
Schnorr Werksnorm Gruppe/Group/Groupe 3 Art.Nr. 023 000
<b>Abmessungen / Dimensions [mm]</b> $D_e = 200$ $D_i = 102$ $t = 14$ ( $t' = 13,1$ ) $l_0 = 18,2$ $h_0 = 4,2$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,961$ $D_e/t = 14,29$ $h_0/t' = 0,389$
<b>Gewicht / weight / poids</b> 2380 kg / 1000 St. / pcs



<b>200 x 112 x 12</b>
Schnorr Werksnorm Gruppe/Group/Groupe 3 Art.Nr. 023 100
<b>Abmessungen / Dimensions [mm]</b> $D_e = 200$ $D_i = 112$ $t = 12$ ( $t' = 11,1$ ) $l_0 = 16,2$ $h_0 = 4,2$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,786$ $D_e/t = 16,67$ $h_0/t' = 0,459$
<b>Gewicht / weight / poids</b> 1870 kg / 1000 St. / pcs



**200 x 112 x 14**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 3  
 Art.Nr. 023 200

**Abmessungen /  
 Dimensions [mm]**

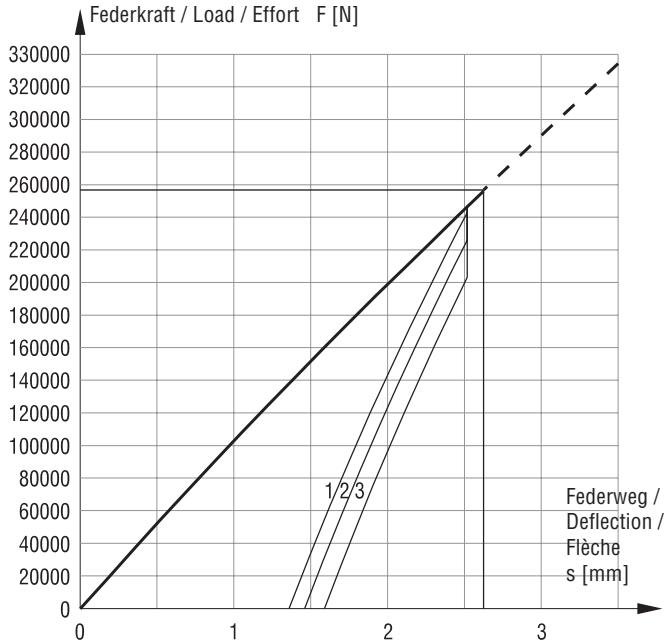
$D_e = 200$   
 $D_i = 112$   
 $t = 14$  ( $t' = 12,9$ )  
 $l_0 = 17,5$   
 $h_0 = 3,5$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,786$   
 $D_e/t = 14,29$   
 $h_0/t' = 0,357$

**Gewicht / weight / poids**

2173 kg / 1000 St. / pcs



**200 x 112 x 16**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 3  
 Art.Nr. 023 300

**Abmessungen /  
 Dimensions [mm]**

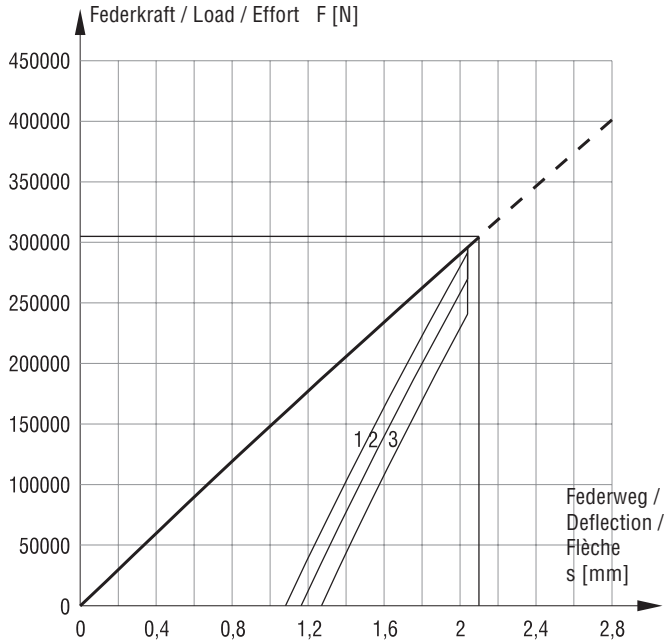
$D_e = 200$   
 $D_i = 112$   
 $t = 16$  ( $t' = 14,8$ )  
 $l_0 = 18,8$   
 $h_0 = 2,8$

**TF-Kennwerte /  
 parameters / rapports**

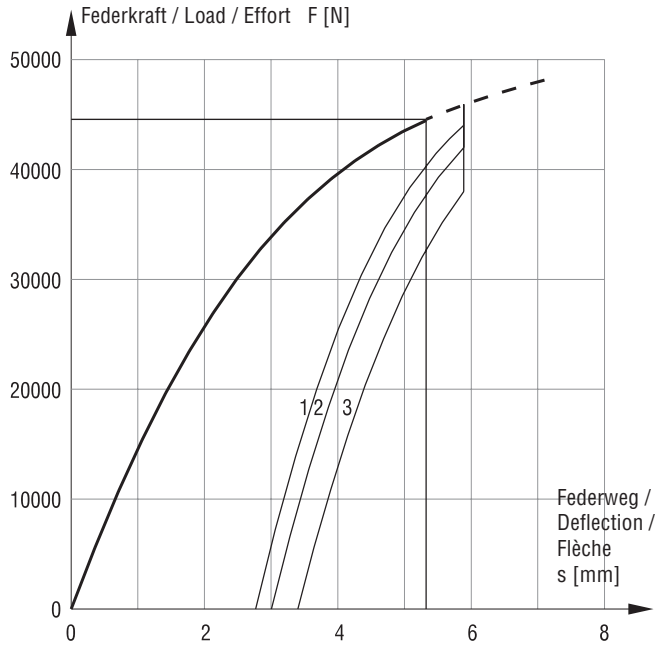
$D_e/D_i = 1,786$   
 $D_e/t = 12,5$   
 $h_0/t' = 0,270$

**Gewicht / weight / poids**

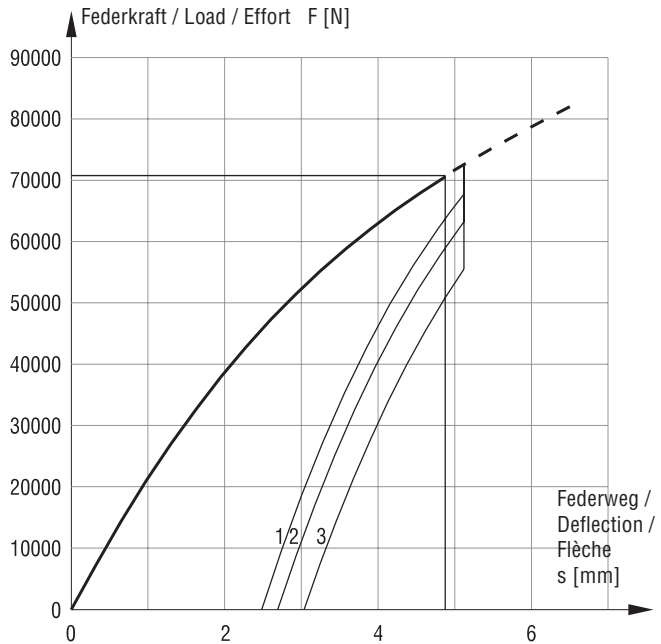
2493 kg / 1000 St. / pcs



<b>225 x 112 x 6,5</b>
DIN 2093 - C 225 Gruppe/Group/Groupe 3 Art.Nr. 023 350
<b>Abmessungen / Dimensions [mm]</b> $D_e = 225$ $D_i = 112$ $t = 6,5$ ( $t' = 6,2$ ) $l_0 = 13,6$ $h_0 = 7,1$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,009$ $D_e/t = 34,62$ $h_0/t' = 1,194$
<b>Gewicht / weight / poids</b> 1450 kg / 1000 St. / pcs



<b>225 x 112 x 8</b>
DIN 2093 - B 225 Gruppe/Group/Groupe 3 Art.Nr. 023 400
<b>Abmessungen / Dimensions [mm]</b> $D_e = 225$ $D_i = 112$ $t = 8,0$ ( $t' = 7,5$ ) $l_0 = 14,5$ $h_0 = 6,5$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,009$ $D_e/t = 28,13$ $h_0/t' = 0,933$
<b>Gewicht / weight / poids</b> 1754 kg / 1000 St. / pcs



**225 x 112 x 12**

DIN 2093 - A 225  
 Gruppe/Group/Groupe 3  
 Art.Nr. 023 500

**Abmessungen /  
 Dimensions [mm]**

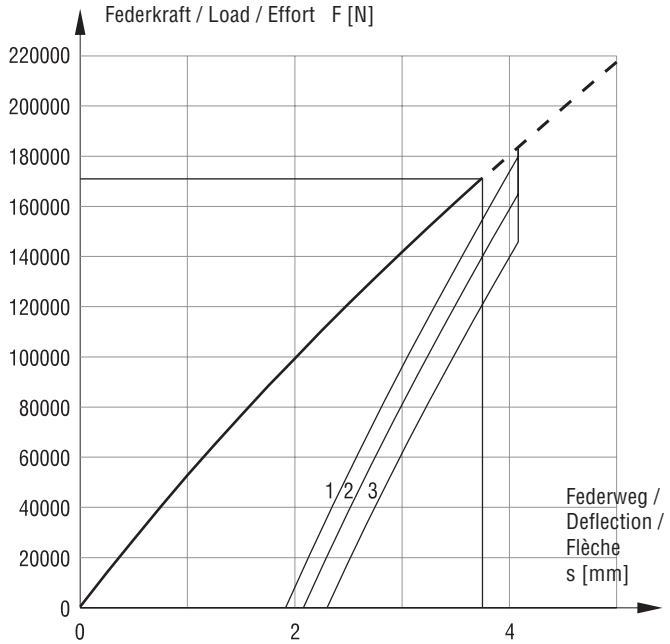
$D_e = 225$   
 $D_i = 112$   
 $t = 12$  ( $t' = 11,25$ )  
 $l_0 = 17,0$   
 $h_0 = 5,0$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 2,009$   
 $D_e/t = 18,75$   
 $h_0/t' = 0,511$

**Gewicht / weight / poids**

2631 kg / 1000 St. / pcs



**250 x 102 x 10**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 3  
 Art.Nr. 023 600

**Abmessungen /  
 Dimensions [mm]**

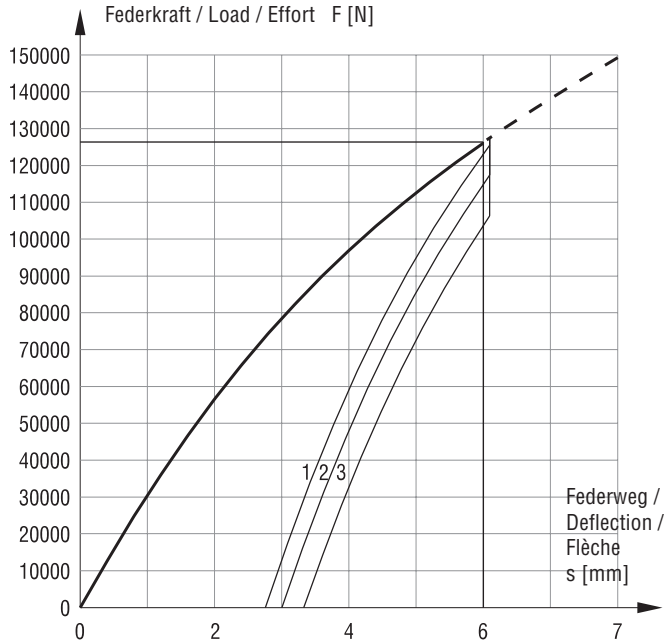
$D_e = 250$   
 $D_i = 102$   
 $t = 10$  ( $t' = 9,6$ )  
 $l_0 = 18,0$   
 $h_0 = 8,0$

**TF-Kennwerte /  
 parameters / rapports**

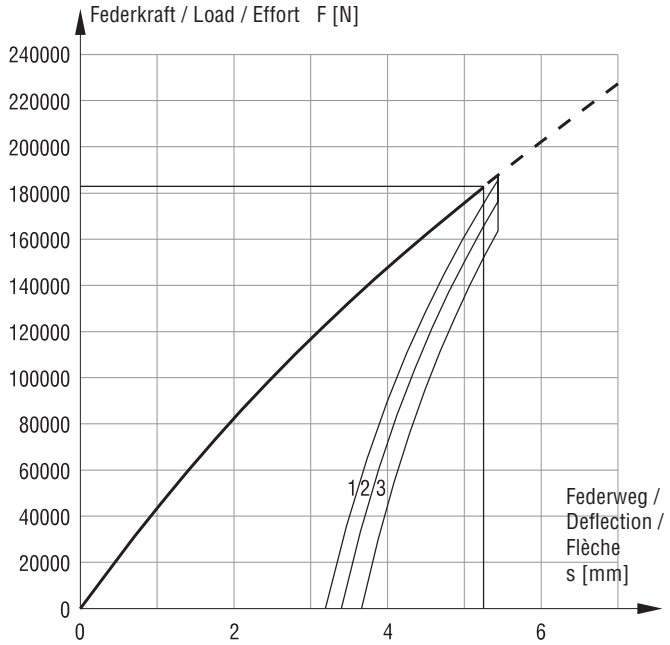
$D_e/D_i = 2,451$   
 $D_e/t = 25$   
 $h_0/t' = 0,875$

**Gewicht / weight / poids**

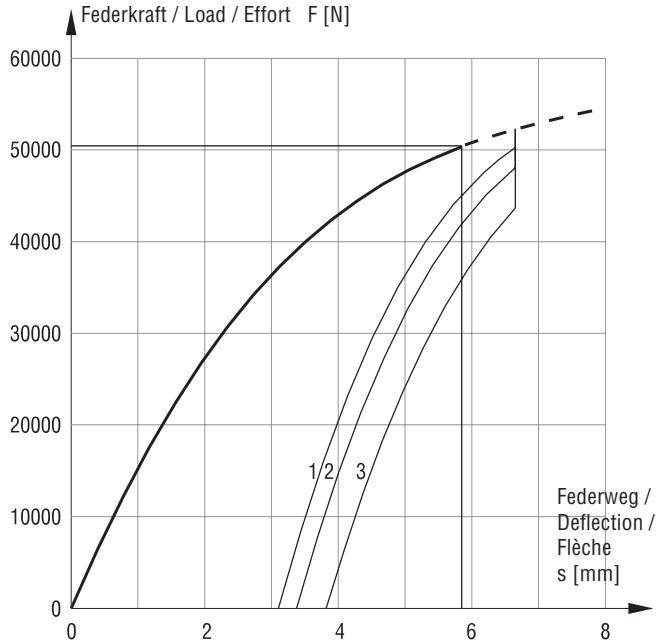
3075 kg / 1000 St. / pcs



<b>250 x 102 x 12</b>
Schnorr Werksnorm Gruppe/Group/Groupe 3 Art.Nr. 023 700
<b>Abmessungen / Dimensions [mm]</b> $D_e = 250$ $D_i = 102$ $t = 12$ ( $t' = 11,5$ ) $l_0 = 19,0$ $h_0 = 7,0$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 2,451$ $D_e/t = 20,83$ $h_0/t' = 0,625$
<b>Gewicht / weight / poids</b> 3683 kg / 1000 St. / pcs



<b>250 x 127 x 7</b>
DIN 2093 - C 250 Gruppe/Group/Groupe 3 Art.Nr. 023 750
<b>Abmessungen / Dimensions [mm]</b> $D_e = 250$ $D_i = 127$ $t = 7,0$ ( $t' = 6,7$ ) $l_0 = 14,8$ $h_0 = 7,8$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,969$ $D_e/t = 35,71$ $h_0/t' = 1,209$
<b>Gewicht / weight / poids</b> 1909 kg / 1000 St. / pcs



**250 x 127 x 10**

DIN 2093 - B 250  
 Gruppe/Group/Groupe 3  
 Art.Nr. 023 800

**Abmessungen /  
 Dimensions [mm]**

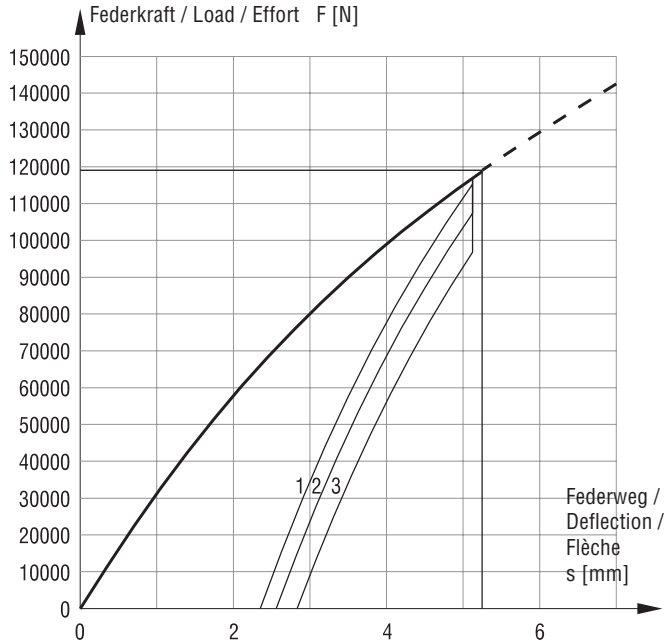
$D_e = 250$   
 $D_i = 127$   
 $t = 10$  ( $t' = 9,4$ )  
 $l_0 = 17,0$   
 $h_0 = 7,0$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,969$   
 $D_e/t = 25$   
 $h_0/t' = 0,809$

**Gewicht / weight / poids**

2678 kg / 1000 St. / pcs



**250 x 127 x 12**

Schnorr Werksnorm  
 Gruppe/Group/Groupe 3  
 Art.Nr. 023 900

**Abmessungen /  
 Dimensions [mm]**

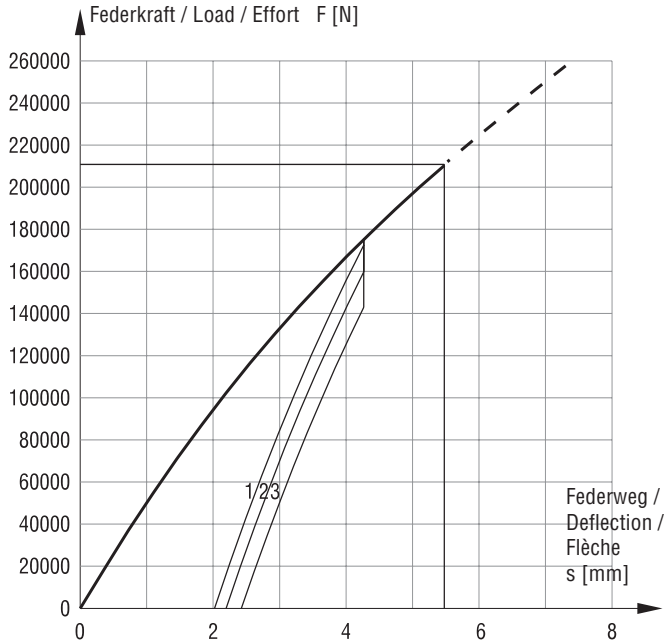
$D_e = 250$   
 $D_i = 127$   
 $t = 12$  ( $t' = 11,25$ )  
 $l_0 = 19,3$   
 $h_0 = 7,3$

**TF-Kennwerte /  
 parameters / rapports**

$D_e/D_i = 1,969$   
 $D_e/t = 20,83$   
 $h_0/t' = 0,716$

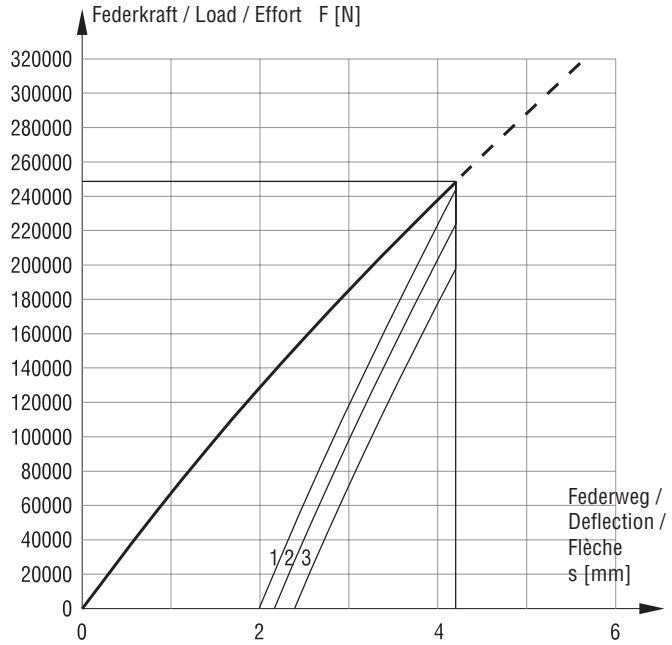
**Gewicht / weight / poids**

3205 kg / 1000 St. / pcs





<b>250 x 127 x 14</b>
DIN 2093 - A 250 Gruppe/Group/Groupe 3 Art.Nr. 024 000
<b>Abmessungen / Dimensions [mm]</b> $D_e = 250$ $D_i = 127$ $t = 14$ ( $t' = 13,1$ ) $l_0 = 19,6$ $h_0 = 5,6$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,969$ $D_e/t = 17,86$ $h_0/t' = 0,496$
<b>Gewicht / weight / poids</b> 3732 kg / 1000 St. / pcs



<b>250 x 127 x 16</b>
Schnorr Werksnorm Gruppe/Group/Groupe 3 Art.Nr. 024 100
<b>Abmessungen / Dimensions [mm]</b> $D_e = 250$ $D_i = 127$ $t = 16$ ( $t' = 15,0$ ) $l_0 = 21,8$ $h_0 = 5,8$
<b>TF-Kennwerte / parameters / rapports</b> $D_e/D_i = 1,969$ $D_e/t = 15,63$ $h_0/t' = 0,453$
<b>Gewicht / weight / poids</b> 4273 kg / 1000 St. / pcs

