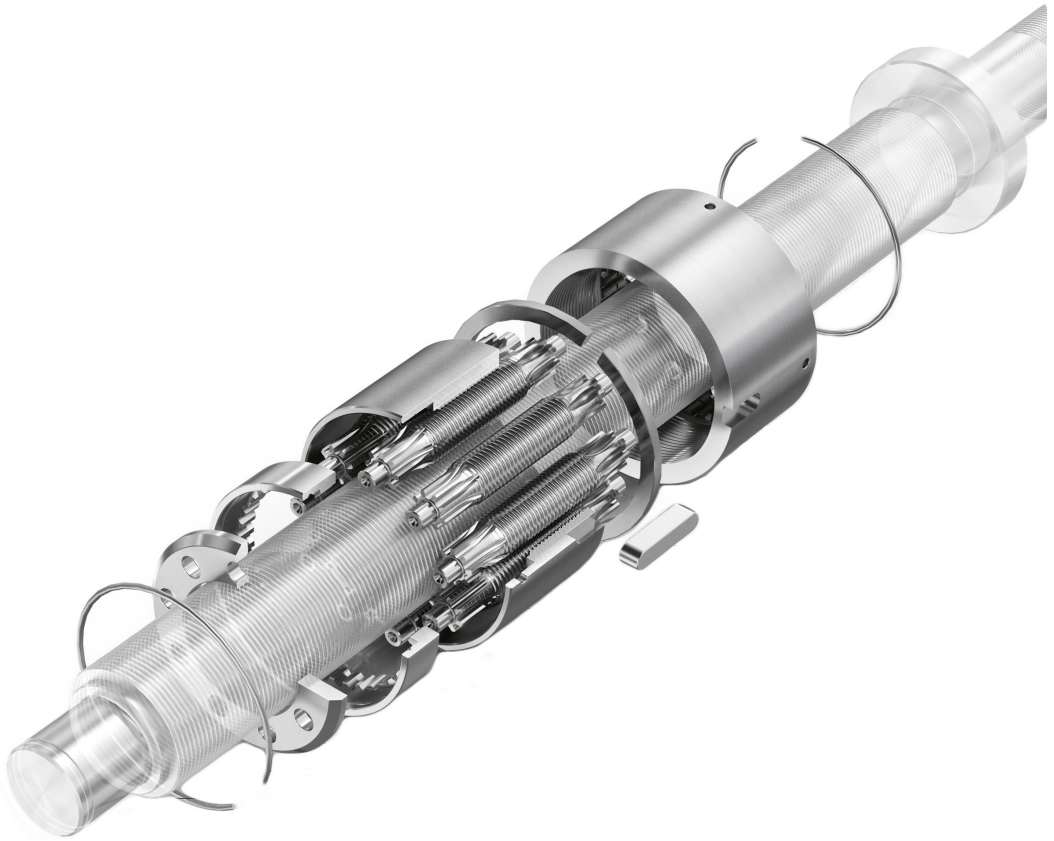
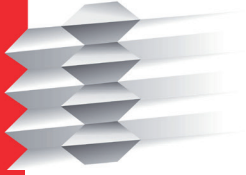


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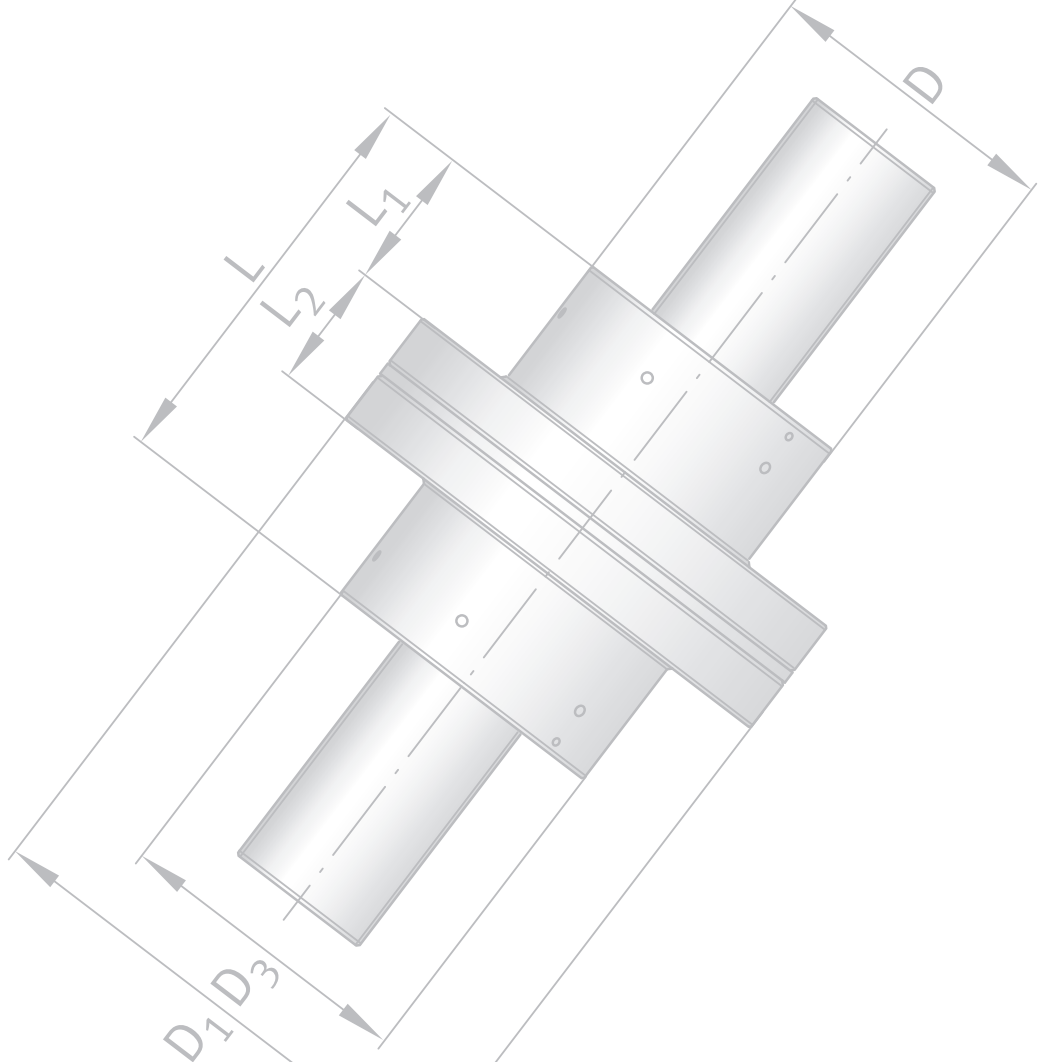
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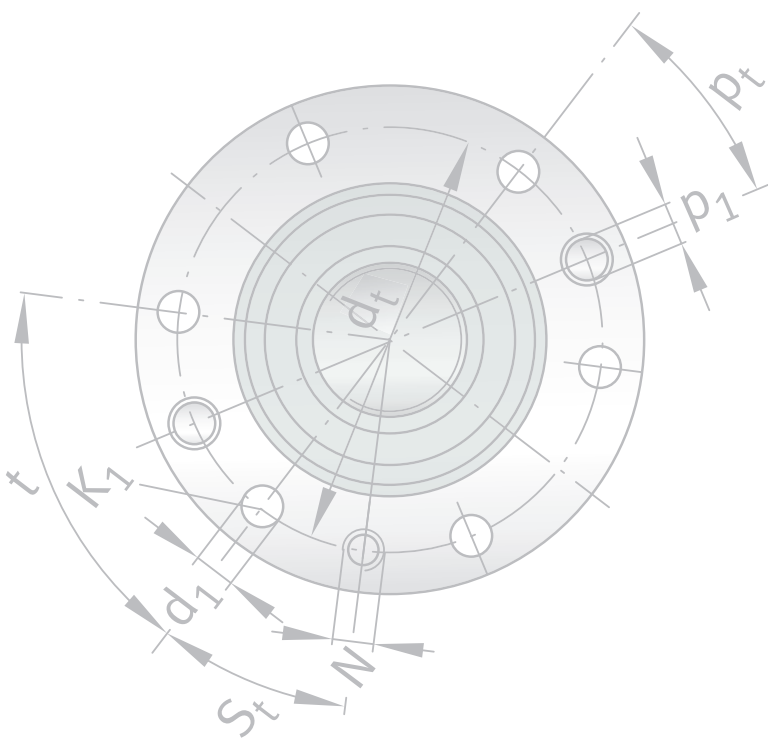
Planetary Roller Screws - RGT

0624V1

www.gsascreevs.com
info@gsascreevs.com



Planetary Roller Screws



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Version 0624V1

Foreword

Planetary Roller Screws

The properties of GSA roller screw drives far exceed those of ball screw drives courtesy of:

- high speeds
- high axial load carrying capacity
- high rigidity
- uniform frictional torque
- high positional accuracy due to very small thread pitch values
- low running noise
- simple mounting and dismounting of the spindle nut
- high operational security

Due to their high rigidity and high axial load carrying capacity, they are used particularly in high-precision machine tools, measuring machinery and industrial robots as well as in electronic component manufacture and servo presses.

They are characterised by a very low mass, compact construction and high performance capacity.

For advice on the selection and application of roller screws and the preparation of design proposals, please contact us.

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Technical principles

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Technical principles

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Load carrying capacity and rating life

GSA roller screw drives are characterised by a very high load carrying capacity and long operating life.

For design purposes, the requisite size of a roller screw drive is determined from the following requirements:

- load carrying capacity
- rating life
- operational reliability

Load carrying capacity

The load carrying capacity of the roller screw drives is described in terms of the basic dynamic load rating C and the basic static load rating C_0 .

Dynamic load carrying capacity and rating life

The dynamic load carrying capacity is described in terms of the basic dynamic load rating and the basic rating life.

The basic dynamic load rating C corresponds to a purely axial, constant load under which a sufficiently large number of apparently identical roller screw drives reach or exceed a basic rating life of 1 million revolutions.

The basic dynamic load rating C is based on a hardness in the contact surfaces of 700 HV 10 60 HRC.

Load carrying capacity and rating life

Basic rating life

The basic rating life L_{10} and L_{10h} for roller screw drives is determined as follows:

$$L_{10} = \left(\frac{C}{P_a} \right)^3 \cdot 10^6$$

$$L_{10h} = \frac{16\,666}{n} \cdot \left(\frac{C}{P_a} \right)^3$$

In stroke operation, the basic rating life L_s and L_{10h} can be calculated using:

$$L_s = \frac{P}{100} \cdot \left(\frac{C}{P_a} \right)^3$$

$$L_{10h} = \frac{8,33 \cdot P}{H \cdot n_{osc}} \cdot \left(\frac{C}{P_a} \right)^3$$

L_{10} The basic rating life in millions of revolutions that is reached or exceeded by 90% of a sufficiently large number of apparently identical roller screw drives before the first evidence of rolling fatigue occurs

C Basic dynamic load rating, effective basic dynamic load rating, see dimension tables

P_a Equivalent axial load

L_{10h} The basic rating life in operating hours according to the definition for L_{10}

n Equivalent speed

L_s The basic rating life for a displacement distance of 10^5 m, according to the definition for L_{10}

P Spindle pitch

H Single stroke length for oscillating motion

n_{osc} Frequency of oscillating motion.

Basic rating life for preloaded splitted nuts

In the case of splitted preloaded nuts, the basic dynamic load rating C and the equivalent load P_a are used to calculate the rating life of the nut. The equivalent load P_a must be determined taking into account the preload.

Total rating life

The rating life values $L_{10(1)}$ and $L_{10(2)}$ are calculated for the two nut halves on the basis of the resulting loads. These values are then finally used to determine the total rating life L_{10} of the preloaded nut.

The rating life is stated in number of revolutions:

$$L_{10(1)} = \left(\frac{C}{F_{nv1}} \right)^3 \cdot 10^6$$

$$L_{10(2)} = \left(\frac{C}{F_{nv2}} \right)^3 \cdot 10^6$$

$$L_{10} = \left(L_{10(1)}^{\frac{10}{9}} + L_{10(2)}^{\frac{10}{9}} \right)^{\frac{9}{10}}$$

$L_{10(1)}, L_{10(2)}$ revolutions
Basic rating life in millions of revolutions of the loaded and relieved nut halves,

according to the definition for L_{10}

L_{10} revolutions

The basic rating life in millions of revolutions that is reached by a sufficiently large number of apparently identical preloaded threaded nuts before the first evidence of material fatigue occurs

C N
Basic dynamic load rating

F_{nv1} N
Resulting load on the nut half exposed to the operating load

F_{nv2} N
Resulting load on the nut half relieved by the operating load.

Equivalent operating values

The rating life formulae are based on the assumption that the axial load of roller screw drive P_a and the speed n are constant. If the load and speed are not constant, equivalent operating values can be determined that induce the same fatigue as the actual loading conditions.

Load carrying capacity and rating life

Load and speed varying in steps

If the load and speed vary in steps over a time period T , *Figure 1*, n and P_a are calculated as follows:

$$n = \frac{q_1 \cdot n_1 + q_2 \cdot n_2 + \dots + q_z \cdot n_z}{100}$$

$$P_a = \sqrt[3]{\frac{q_1 \cdot n_1 \cdot F_1^3 + q_2 \cdot n_2 \cdot F_2^3 + \dots + q_z \cdot n_z \cdot F_z^3}{q_1 \cdot n_1 + q_2 \cdot n_2 + \dots + q_z \cdot n_z}}$$

n min^{-1}

Equivalent speed

q_i %

Time proportion of an operating mode relative to the total operating period

$$q_i = (\Delta t_i / T) \cdot 100$$

n_i min^{-1}

Constant speed during the time period i

P_a N

Axial equivalent bearing load

F_i N

Constant load during the time period i .

P_a = equivalent axial bearing load
 F_i = constant load during the time period i
 n_m = mean speed
 n_i = constant speed during the time period i
 q_i = time proportion of the operating mode relative to the total operating period

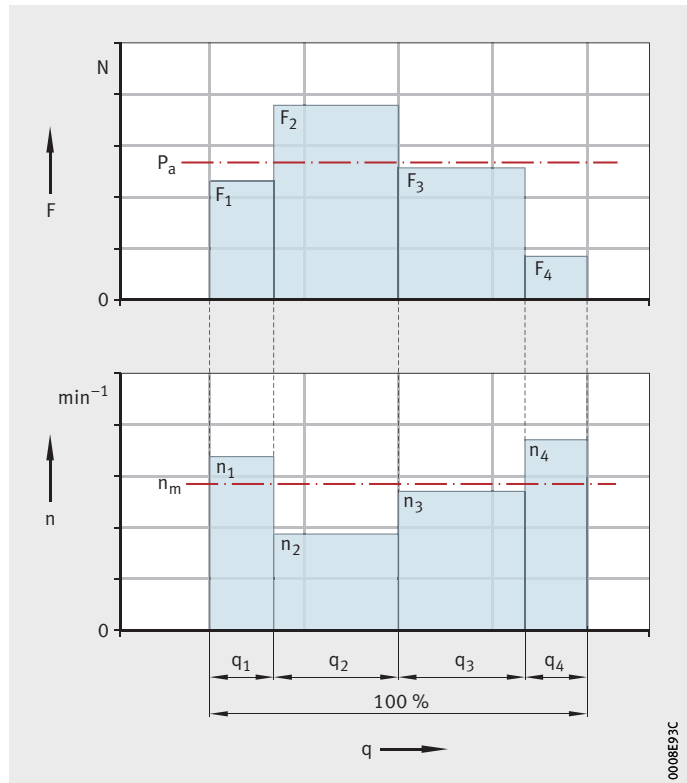


Figure 1
Load and speed varying in steps

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Minor change in load at constant speed

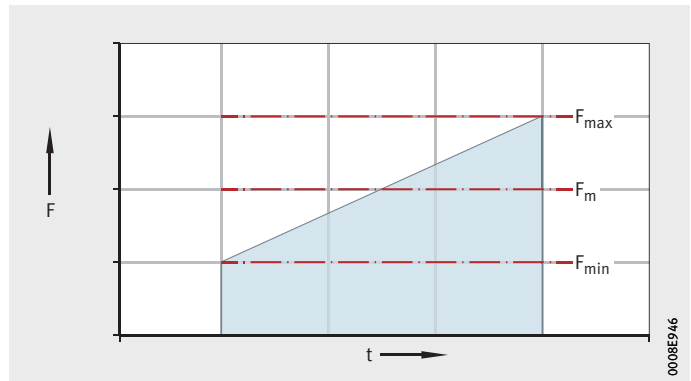
If there is a minor change in load and the speed is constant, *Figure 2*, the following equation can be used to determine the mean load F_m :

$$F_m = \frac{2 \cdot F_{\max} + F_{\min}}{3}$$

F_m Mean load N
 F_{\max} Maximum load N
 F_{\min} Minimum load N

F = load
t = time

Figure 2
Load varying very slightly
at constant speed



Operating life

The operating life is defined as the life actually achieved by roller screw drives. It may differ significantly from the calculated life.

The following factors can lead to premature failure:

- misalignment between roller screw drives
- contamination of the contact surfaces
- inadequate lubrication
- oscillating motion with very small stroke length (false brinelling)
- vibration while stationary (false brinelling)
- overloading of the guidance system (even for short periods)
- plastic deformation

Due to the wide range of possible installation and operating conditions, it is not possible to calculate the operating life of a roller screw drive precisely in advance. The most reliable method of achieving a good estimate of the operating life is by comparison with similar applications.

Load carrying capacity and rating life

Static load carrying capacity

The static load carrying capacity of roller screw drives is limited by:

- the permissible load on the roller screw drives
- the permissible load on the screw connections
- the permissible load on the adjacent construction



For design purposes, the static load safety factor S_0 required for the application must be observed.

Basic static load ratings

The basic static load rating C_0 describes the force acting concentrically and constantly in an axial direction under which the Hertzian pressure between the threaded rollers and the spindle reaches $4\,200\text{ N/mm}^2$ at the most heavily loaded point. This load causes total permanent deformation of the threaded rollers that is approximately 0,0001 times the pitch diameter.

The basic static load rating C_0 is based on a material hardness in the contact zones, between threaded spindle and threaded roller, of $700\text{ HV }10 \approx 60\text{ HRC}$.

Static load safety factor

The static load safety factor S_0 indicates the security against permissible permanent deformations in the roller screw drive:

$$S_0 = \frac{C_0}{F_0}$$

S_0 –
Static load safety factor

C_0, C_{0H} N

Basic static load rating, effective basic static load rating, see page 14

F_0 N

Maximum axial force.

The static load safety factor can be correspondingly smaller if the occurring forces, particularly the peak values, are more precisely known, but must be higher if correspondingly higher demands are placed on the smooth running and life of a roller screw drive.



For applications where high demands are placed on precision, the static load safety factor S_0 should not be less than the value 4.

The permissible buckling load F_{per} must be taken into account, see page 15.

Spindle buckling

If a threaded spindle is subjected to compressive load, it must be checked for buckling.

The permissible compressive force F_{per} that can act in an axial direction on the spindle via the nut in its least favourable position is

calculated as follows:

$$F_{\text{per}} = \frac{k_K \cdot d_0^4}{a^2} \cdot 10^4$$

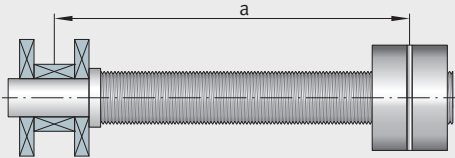
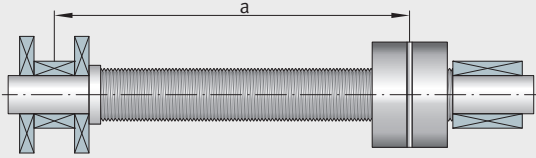
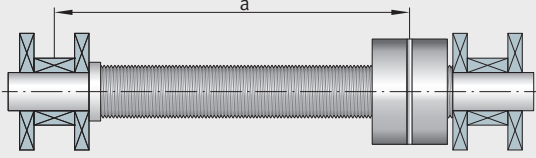
F_{per} N
Permissible compressive force

k_K N/mm²
Factor dependent on the type of spindle bearing arrangement, see table

d_0 mm
Nominal diameter of the threaded spindle, see dimension tables

a mm
Free buckling length, see table.

Factor k_K

Type of spindle bearing arrangement	Factor k_K
	0,84
	7
	13,7

Rigidity

Influencing factors

The rigidity of a unit consisting of a roller screw drive and associated bearing components is influenced by the:

- preload on the threaded nut
- axial operating loads
- number of bearing positions
- bearing type
- bearing size
- bearing spacings
- bearing preload
- length of the screw spindle
- housing dimensions

The overall rigidity of a roller screw drive increases with the increasing preload on the threaded nut. The operating life of the screw drive and torque are, however, also affected at the same time.

Overall rigidity

If an operating load acts on a unit consisting of a roller screw drive and associated components, elastic deformations occur on all elements transmitting load.

The total deformation δ_{tot} is essentially calculated from the rigidity of the:

- threaded nut
- threaded spindle
- bearing arrangement

A rigidity diagram is shown by way of example, *Figure 1*. These diagrams can be requested from GSA.

δ = axial deformation
 F = axial operating load

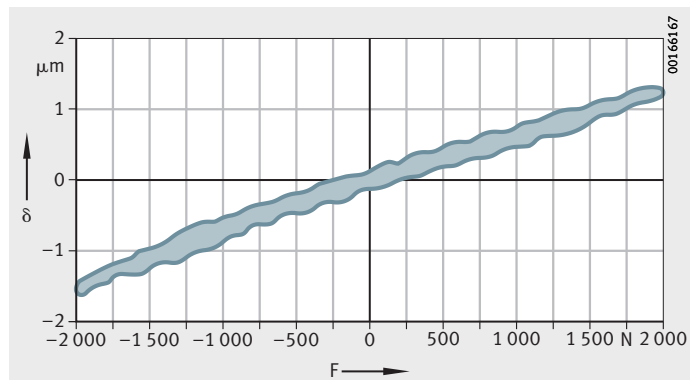


Figure 1

Example of axial elastic deformation

Rigidity

$$\delta_{\text{tot}} = F \cdot \left(\frac{1}{c_{\text{aM}}} + \frac{1}{c_{\text{aS}}} + \frac{1}{c_{\text{aL}}} \right)$$

δ_{tot}	μm
Total deformation in roller screw drive, axial	
F	N
Axial operating load	
c_{aM}	$\text{N}/\mu\text{m}$
Axial rigidity of the threaded nut (linearised)	
c_{aS}	$\text{N}/\mu\text{m}$
Rigidity of the threaded spindle	
c_{aL}	$\text{N}/\mu\text{m}$
Rigidity of the spindle bearing arrangement	

Rigidity of the threaded nut

Due to the non-linear deflection in the contact area of the thread flanks, the axial rigidity of threaded nut c_{aM} is determined by the load:

$$c_{\text{aM}} = c_{\text{K}} \cdot F^{1/3}$$

c_{aM}	$\text{N}/\mu\text{m}$
Axial rigidity of the threaded nut at the operating point	
c_{K}	$\text{N}^{2/3}/\mu\text{m}$
Spring characteristic number, see dimension tables	
F	N
Axial operating load.	

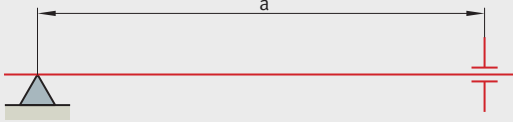
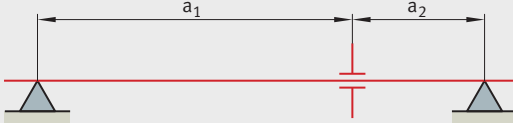
Rigidity of the threaded spindle

The axial rigidity of threaded spindle c_{aS} is determined by the spindle diameter, the type of bearing arrangement, the distance between the bearing positions and the position of the threaded nut:

$$C_{aS} = 165 \cdot k_S \cdot d_0^2$$

c_{aS} N/ μ m
Axial rigidity of the threaded spindle
 k_S mm⁻¹
Factor, see table Factor k_S
 d_0 mm
Nominal diameter of the threaded spindle, see dimension tables.

Factor k_S

Spindle bearing arrangement	Factor k_S
Fixed restraint on one side 	$\frac{1}{a}$
Fixed restraint on both sides 	$\left(\frac{1}{a_1} + \frac{1}{a_2} \right)$

Efficiency and drive torque

Theoretical efficiency

The efficiency of a roller screw drive is heavily dependent on the operating conditions.

If rotational motion is converted into linear motion, theoretical efficiency η_1 shall apply, see dimension tables.

If linear motion is converted into rotational motion, theoretical efficiency η_2 shall apply, see dimension tables.

Practical efficiency

Practical efficiency η_p and the coefficient of friction are determined by the load, speed, and lubrication.

The practical efficiency is estimated using:

$$\eta_p = 0,9 \cdot \eta_1$$

η_p
Practical efficiency

η_1
Theoretical efficiency of the conversion.

Drive torque

In order to generate an axial force F (feed force), a drive torque must be applied.

The drive torque M_t is calculated as follows:

$$M_t = \frac{F \cdot P}{2 \cdot \pi \cdot \eta_1} \cdot 10^{-3}$$

M_t
Drive torque

F
Axial force

P
Spindle pitch, see dimension tables

η_1
Theoretical efficiency of conversion of rotational motion into linear motion, see dimension tables.

Holding torque

Unlike sliding screw drives, roller screw drives are not self-locking. In order to prevent the return motion of the roller screw drive under axial load F, a holding torque must be applied.

The following is valid for the holding torque M_H :

$$M_H = \frac{F \cdot P \cdot \eta_2}{2 \cdot \pi} \cdot 10^{-3}$$

M_H
Holding torque

F
Axial force

P
Spindle pitch, see dimension tables

η_2
Theoretical efficiency of conversion of linear motion into rotational motion, see dimension tables.

Speeds

Speed limits Roller screw drives from GSA can be used in applications with high speeds and allow speeds that are three times higher than those achievable with ball screw drives.

The permissible limiting speed for roller screw drives is essentially determined by the following factors:

- nominal diameter
- free spindle length a , see table, page 22
- type of spindle bearing arrangement, see table, page 22
- lubrication

There are basically three different speed limits that must be observed when using roller screw drives:

- limiting speed n_G for the roller screw drive, see dimension tables
- critical spindle speed n_{\max}
- limiting speeds n_G of the rolling bearings used to support the threaded spindle

Speeds

Critical spindle speed

In the case of a rotating threaded spindle, the critical whirling spindle speed must be taken into consideration as the upper limit for the permissible speed range.

If roller screw drives are operated at speeds that are higher than the critical spindle speed, the smooth running and life of the spindle will be impaired.

The maximum permissible speed n_{\max} includes adequate security against resonance operation.

It can be determined using the following formula:

$$n_{\max} = \frac{k_n \cdot d_0}{a^2} \cdot 10^7$$

n_{\max} min^{-1}
Maximum permissible spindle speed

k_n $\text{min}^{-1} \cdot \text{mm}$

Factor dependent on the type of spindle bearing arrangement, see table

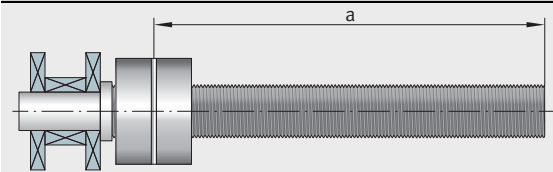
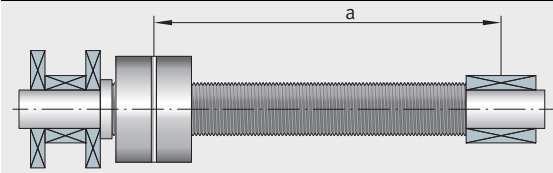
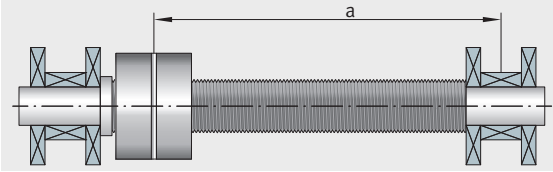
d_0 mm

Nominal diameter of the spindle, see dimension tables

a mm

Free spindle length, see table.

Factor k_n

Type of spindle bearing arrangement	Factor k_n
	3,5
	15,3
	22,3

Lubrication

Roller screw drives must be lubricated.

The lubricant operating life or the relubrication interval respectively are essentially dependent on:

- load
- velocity
- stroke length
- Ambient conditions

Grease lubrication

Since roller screw drives are operated in the mixed friction range, we recommend using a grease with a mineral oil base, EP additives and solid lubricant components that fulfil the conditions for lubricating greases in accordance with DIN 51825-KPF2K-20.

We recommend grease lubrication using greases of NLGI grade 2 and ISO VG 150 for the base oil.

Initial greasing

Roller screw drives supplied with preservative must be lubricated using the specified initial grease quantity prior to commissioning.

Initial grease quantity

The initial grease quantity is made up of several components, see tables.

Determining the initial grease quantity for roller screw drives without roller return

Roller screw drive			Initial grease quantity	
Nominal diameter d_0 mm	Variant	Pitch P mm	Initial quantity g	Dependent on stroke g/100 mm
5	A ¹⁾ , B	1, 2, 4	0,5	0,34
8	A ¹⁾ , B, C, D	1, 2, 4, 5	1	0,6
12	A ¹⁾	1, 2, 4, 5, 10	1	0,9
	B	1	1,5	0,9
	B	2, 4, 5, 10	1	0,9
	C	1, 2, 4, 5, 10	1	0,9
	D	1	1,5	0,9
15	A ¹⁾	2, 4, 5, 6, 8, 10	1	1,1
	B	2, 4, 5, 6	1,5	1,1
	B	8, 10	1	1,1
	C	2, 4, 5, 6, 8, 10	1	1,1
	D	2, 4, 5, 6, 8, 10	1,5	1,1
20	A ¹⁾	2, 4, 5, 6, 10, 12, 20	2	1,2
	B	2, 4, 5, 6, 10, 12	3	1,2
	B	20	2	1,2
21	A	2, 4, 5, 10, 12, 20	2	1,3
	B	2, 4, 5, 10, 12	2	1,3
	B	20	3	1,3
24	A	2, 4, 5, 6, 12, 20	2	1,5
	B	2, 4, 5, 6, 12, 20	3	1,5

continued ▼

Lubrication

Determining
the initial grease quantity
for roller screw drives
without roller return

Roller screw drive			Initial grease quantity	
Nominal diameter d_0 mm	Variant	Pitch P mm	Initial quantity g	Dependent on stroke g/100 mm
25	A	2, 4, 5, 6, 12, 20	3	1,6
	B	2, 4, 5, 6, 12, 20	4	1,6
27	A	2, 4, 5, 6, 8, 15	2	1,7
	A	25	3	1,7
	B	2, 4, 5, 6, 8, 15	4	1,7
	C	2, 4, 5, 6, 8, 15	3	1,7
	C	25	4	1,7
	D	2, 4, 5, 6, 8, 15	5	1,7
30	D	25	6	1,7
	A	2, 4, 5, 6, 8, 10, 20	3	1,9
	B	2, 4, 5, 6, 8, 10, 20, 30	5	1,9
	C	2, 4, 5, 6, 8, 10, 20, 30	5	1,9
	D	2, 4, 5, 6, 8, 20	7	1,9
	D	10, 30	6	1,9
33	A	5	8	2,1
36	A	2, 4, 5, 6, 30	6	2,3
	A	8, 10, 20, 25	5	2,3
	B	2, 4, 5, 6, 8, 10, 20, 25, 30	8	2,3
39	A	2, 4, 5, 10, 20, 30	7	2,5
	B	2, 4, 5, 10, 20, 30	11	2,5
	C	2, 4, 5, 10, 20, 30	10	2,5
	D	2, 4, 5, 10, 20, 30	13	2,5
44	A	12, 24, 30, 36	8	2,8
	A	42	9	2,8
	B	12, 24, 30, 36	12	2,8
	B	42	13	2,8
48 ²⁾	A	5, 10, 20, 30, 40	17	3
	B	5, 10, 20, 30, 40	23	3
	C	5, 10	22	3
	C	20, 30, 40	21	3
	D	5, 10	28	3
	D	20, 30, 40	27	3
48 ³⁾	A	6, 12, 18, 30	13	3
56	A	12, 24, 30, 36	13	3,5
	B	12, 24, 30, 36	18	3,5
63 ²⁾	A	5, 10, 15	28	4
	A	20, 30, 40, 45	27	4
	C	5, 10, 15, 20, 30, 40	45	4
	C	45	44	4
	D	5, 10	37	4
	D	15, 20, 30, 40, 45	36	4

continued ▲▼

**Determining
the initial grease quantity
for roller screw drives
without roller return**

Roller screw drive			Initial grease quantity	
Nominal diameter d_0 mm	Variant	Pitch P mm	Initial quantity g	Dependent on stroke g/100 mm
63 ³⁾	A	10, 12, 18, 24	22	4
	B	10, 12	28	4
	B	18, 24	27	4
78	A	5, 10, 15	61	4,9
	A	20, 30, 36, 42	60	4,9
	B	5, 10, 15	73	4,9
	B	20, 30, 36, 42	72	4,9
	C	5, 10, 20	89	4,9
	C	15, 30, 36, 42	88	4,9
90	A	10, 15, 20	130	5,7
	A	25	129	5,7
	B	10, 15, 20	152	5,7
	B	25	151	5,7
	C	10, 15, 20	162	5,7
	C	25	161	5,7
100 ²⁾	A	10	178	6,2
	A	20, 25	174	6,2
	A	50	172	6,2
	B	10	201	6,2
	B	20, 25	196	6,2
	B	50	194	6,2
100 ²⁾	A	12, 18, 24	83	6,3
	B	12, 18	106	6,3
	B	24	105	6,3
120	A	20	236	7,6
	A	25	239	7,6
	B	20	269	7,6
	B	25	272	7,6
	C	20	352	7,6
	C	25	355	7,6
135	A	15	540	8,5
	A	20	537	8,5
	A	30	535	8,5
150	A	25, 30, 40	695	9,5
180	A	20, 24, 25, 30	1 448	11,3
	A	40	1 437	11,3
	B	20, 24, 25, 30	1 515	11,3
	B	40	1 497	11,3

continued ▲▼

Lubrication

Determining the initial grease quantity for roller screw drives without roller return

Roller screw drive			Initial grease quantity	
Nominal diameter d_0 mm	Variant	Pitch P mm	Initial quantity g	Dependent on stroke g/100 mm
210	A	20, 25, 30, 35	1 880	13,2
	B	20, 25, 30, 35	2 032	13,2
245	A	30	3 334	15,4
	B	30	4 634	15,4

continued ▲

- 1) Also applies to VTF and VTS.
- 2) Mobility level 5.
- 3) Mobility level 6.

Determining the initial grease quantity for roller screw drives with roller return

Nominal diameter d_0 mm	Pitch P mm	Initial grease quantity	
		Initial quantity g	Dependent on stroke g/100 mm
8	0,5	1	0,6
	1	1	0,6
10	0,5	1	0,7
	1	1	0,7
	2	1	0,7
12	0,5	1	0,8
	1	1	0,8
	2	1	0,8
16	0,5	1	1
	1	1	1
	2	1	1
20	0,5	1	1,2
	1	1	1,2
	2	1	1,2
25	1	1,5	1,6
	2	1,5	1,7
32	1	3	2
	2	3	2
40	1	5	2,4
	2	5	2,4
50	1	14	3
	2	15	3
	3	16	3
	4	15	3
63	2	29	3,7
	4	29	3,7
80	4	30	4,7
100	5	106	5,9
125	5	260	7,4

The lubrication quantities are introduced partially while the nut is static and partially while it is moving.

Since the nut in the roller screw drive does not have contact seals, a portion of the grease is carried out of the nut over the stroke range. In order to take account of this process, the grease quantity is increased during initial greasing and regreasing by an amount as a function of the stroke.

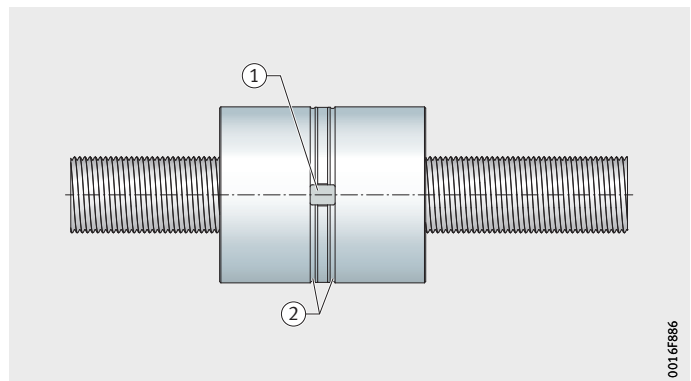
Example Roller screw drive RGT-VTE-012.01, variant B, 500 mm stroke length:

- Initial grease application comprising:
 - initial quantity 1,5 g
 - additional quantity per 100 mm stroke length: 0,9 g
- Initial grease quantity =
 $1,5 \text{ g} + 500 \text{ mm} \cdot 0,9 \text{ g}/100 \text{ mm} = 4,65 \text{ g}$

Lubricant feed Single-piece cylindrical nuts without roller return and flanged nuts with screw-in threads have a lubrication groove. All other nuts do not have a lubrication groove.
In the case of cylindrical nuts, the lubrication hole is located opposite the feather key.

- ① Position for lubricant feed
- ② Integrated lubrication grooves

Figure 1
Lubricant feed for cylindrical nut with lubrication grooves



In the case of split nuts, the locating bore in the housing must not have a circumferential lubrication groove in the area of the spacer, since this can lead to a positional error of the supplied spacer.

Lubrication

Grease operating life

Since it is not possible to calculate all the influencing factors, the precise grease operating life can only be determined under operating conditions. The approximation equation below, however, can be used to determine a guide value for many applications:

$$t_{fG} = t_f \cdot K_P \cdot K_W \cdot K_U$$

t_{fG} Guide value for grease operating life in operating hours

t_f Basic lubrication interval in operating hours

K_P, K_W, K_U Correction factors for load, stroke and environment.



The grease operating life is restricted, due to the ageing resistance of the grease, to a maximum of 3 years.

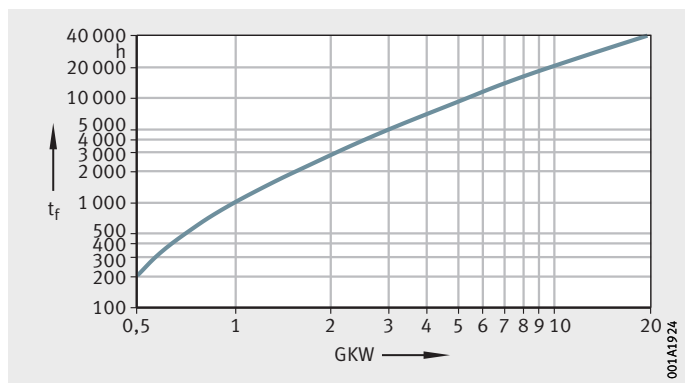
Basic lubrication interval

The basic lubrication interval t_f , *Figure 2*, is valid under the following conditions:

- nut temperature +70 °C
For higher temperatures, follow the grease manufacturer's recommendation.
- load ratio $C_0/P < 20$
- no disruptive environmental influences
- stroke ratio between 10 and 50, see page 30

t_f = basic lubrication interval
GKW = speed parameter

Figure 2
Determining
the basic lubrication interval



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Speed parameter In order to determine the basic lubrication interval, the speed parameter must be known.

The speed parameter is calculated as follows:

$$GKW = \frac{60}{v_m} \cdot K_{LF}$$

GKW –
 Speed parameter
 v_m m/min
 Mean travel velocity
 K_{LF} –
 Bearing factor;
 for roller screw drives: $K_{LF} = 0,1$.

Correction factors The correction factors take account of the influences of load, stroke and environment on the grease operating life.

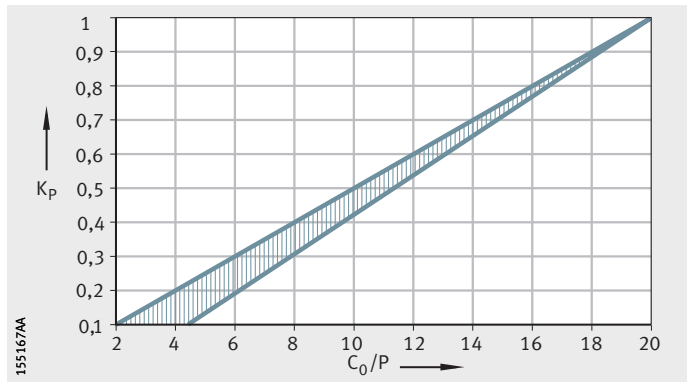
Correction factor for load K_p The correction factor K_p takes account of the strain on the grease at a load ratio of $C_0/P < 20$, *Figure 3*.



The factors are only valid for high quality lithium soap greases.

K_p = correction factor for load
 C_0/P = load ratio

Figure 3
 Correction factor for load



Lubrication

Correction factor
for stroke length
 K_W

The correction factor K_W takes account of the displacement distance to be lubricated, *Figure 4*. It is dependent on the stroke ratio.

K_W = correction factor for stroke length
 H_V = stroke ratio

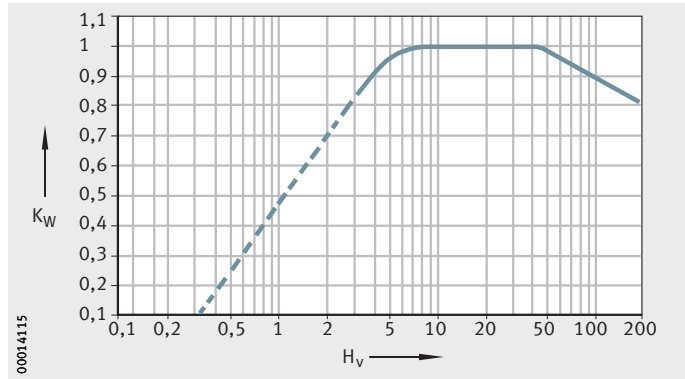


Figure 4

Correction factor for stroke length

Stroke ratio

If the stroke ratio H_V is less than 10 or more than 50, the grease operating life is reduced due to the risk of fretting corrosion or loss of grease.

The stroke ratio is calculated as follows:

$$H_V = \frac{L \cdot 10}{H}$$

H_V —
Stroke ratio
L mm
Length of threaded nut, see dimension tables
H mm
Stroke length.

If the stroke length is very short, the grease operating life may be shorter than the calculated guide value. In this case, special greases are recommended; please consult GSA.

Correction factor
for environment
 K_U

The correction factor K_U takes account of shaking forces, vibrations (a cause of fretting corrosion) and shocks, see table. These influences place an additional strain on the grease. If cooling lubricant or moisture enters the system, calculation is not possible.

Environmental influence
and correction factor

Environmental influence	Correction factor K_U
Slight	1
Moderate	0,8
Heavy	0,5

Relubrication

Lubricating grease used	The grease used for relubrication should be the same as that for initial greasing. If different greases are used, their miscibility and compatibility must be checked first.
Relubrication interval	<p>If the guide value for the grease operating life t_{FG} is less than the required operating duration of the roller screw drive, relubrication must be carried out.</p> <p>Relubrication must be carried out at a time when the old grease can still be forced out of the threaded nut by the new grease.</p> <p>A guide value for the relubrication interval for most applications is:</p> $t_{FR} = 0,5 \cdot t_{FG}; t_{FG} < t_{FE}$ <p>t_{FR} h Guide value for relubrication interval in operating hours</p> <p>t_{FG} h Guide value for grease operating life in operating hours</p> <p>t_{FE} h Required operating duration in hours.</p>
Relubrication quantity	The relubrication quantity is approximately 50% of the initial grease quantity. Relubrication should be carried out wherever possible with several partial quantities at various times instead of the complete quantity at the time of the relubrication interval.
Influence of grease on friction behaviour	<p>During commissioning and relubrication, the coefficient of friction increases temporarily due to the fresh grease. After a short running-in period, however, the coefficient of friction returns to its original lower value.</p> <p>The friction behaviour is determined significantly by the characteristics of the grease used. The consistency and base oil viscosity serve as approximate guide values.</p>

Lubrication

Oil lubrication

The advantage of oil lubrication is the flushing effect. Preference should be given to the use of lubricating oils CLP or CGLP to DIN 51517.

The viscosity should be in the range of ISO VG 150 to ISO VG 220. A viscosity of up to ISO VG 680 is also possible at lower speeds.

Compatibility

If it is possible to draw upon practical experience or guidelines from the oil manufacturer, oils must not be used until their behaviour in relation to plastics, elastomers and non-ferrous metals has been tested.



The compatibility of oils must always be checked.

This must only be checked under dynamic conditions and at operating temperature.

In case of doubt, the lubricant manufacturer must be consulted.

Miscibility

Lubricating oils with a mineral oil base of the same classification are miscible with each other. However, the viscosities should be within one ISO-VG class of each other.



The miscibility of synthetic oils must always be checked.

In case of doubt, the lubricant manufacturer must be consulted.

Compatibility with process materials (e.g. cooling lubricants) must be checked.

Design of the adjacent construction

Basic requirements

The design of the bearing arrangement for roller screw drives is largely determined by the following requirements:

- accuracy
- rigidity
- load carrying capacity

These requirements have a direct effect on the design of the adjacent construction, particularly with regard to the following:

- geometrical and positional accuracy of the adjacent construction
- location of the threaded nut
- design of the locating and non-locating bearing end

Axial and radial load

Roller screw drives from GSA are designed to support axial operating loads, *Figure 1*. **Radial loads and tilting moments reduce the operating life of the screw drive considerably**, as the threaded nut transmits radial loads via the threaded rollers to the spindle and back at only a small number of contact points.

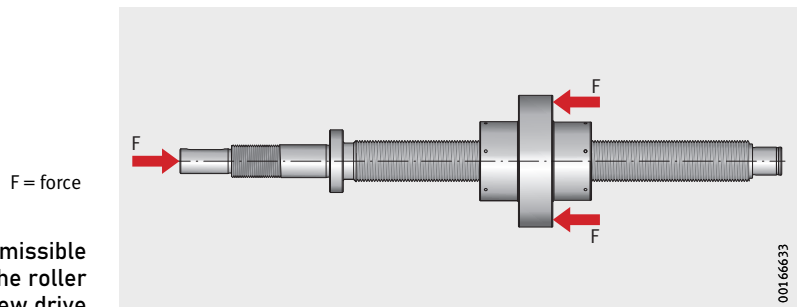


Figure 1 Permissible load on the roller screw drive

If it is nevertheless necessary to support radial loads, then roller screw drives with a higher load carrying capacity than the design based on pure axial loads should be used. This may be the case where there are misalignments in welded constructions, for example.



The adjacent construction should be designed in such a way that no radial loads act on the threaded nut.

The permissible compressive load must be observed in relation to buckling, see page 15.

Covering the threaded spindles

If roller screw drives are operated under harsh conditions or the threaded spindles are exposed to coarse contaminants or aggressive media, special measures must be taken to protect the spindles. Bellows or telescopic tubes, for example, are particularly suitable as covers. The respective travel length of the threaded nut (stroke length) must be taken into account when designing the cover.

Cylindrical threaded nuts

There are two types of axial location available for cylindrical threaded nuts:

- location by pressure plate
- location by ring nut

Clinch ring

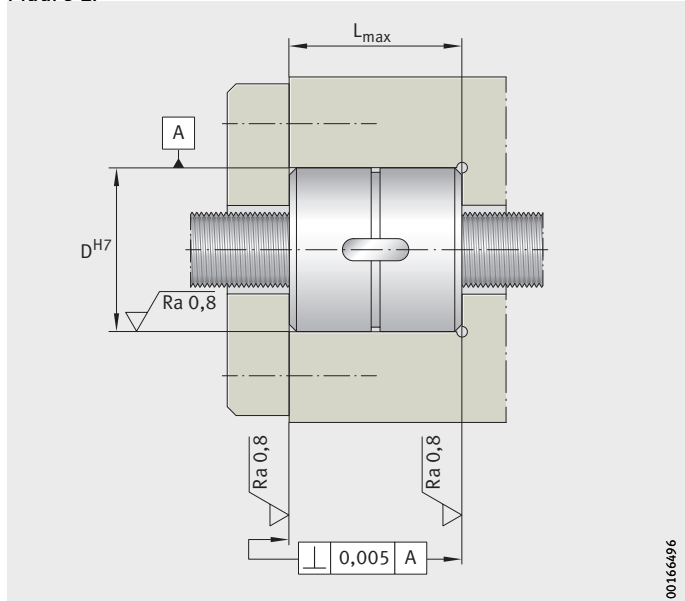
Clinch rings should be used with preloaded cylindrical threaded nuts. For location by pressure plate, a clinch ring is inserted between the housing shoulder and nut, and between the nut and pressure plate, *Figure 3*, page 38. For location by ring nut, a clinch ring is inserted between the housing shoulder and nut, *Figure 4*, page 40. This prevents damage to the contact surfaces of the nut when tightening the fixing screws or ring nut to the prescribed tightening torque.

The dimensions for the housing shoulder and clinch rings must be selected so as to generate a sufficiently large contact surface for the nut and prevent damage to any protruding wipers.

Design of the adjacent construction

Mounting tolerances

In order to achieve the full function and operating life of the roller screw drive, the tolerance specifications provided for the installation space of threaded nuts must be observed, *Figure 2.*



L_{\max} = maximum bore length
D = outside diameter of the threaded nut

Figure 2
Mounting tolerances
for cylindrical threaded nuts

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The maximum bore length L_{\max} applies in the mounting of cylindrical threaded nuts:

$$L_{\max} = L - x$$

L_{\max} mm
Maximum bore length

L mm
Length of threaded nut, see dimension tables

x mm
Constant, see table.

Maximum bore length L_{\max} for cylindrical threaded nuts

Nominal diameter d_0 mm	Constant x mm
5	0,35
8	
12	
15	
20	0,40
21	
24	
25	
27	
30	
36	
39	0,45
44	
48	
56	
63	
78	0,55
90	
100	



If the maximum bore length L_{\max} is exceeded, there will be a considerable decline in the overall accuracy of the screw drive as the preload will be reduced or even eliminated.

This must be taken into account when using clinch rings.

Design of the adjacent construction

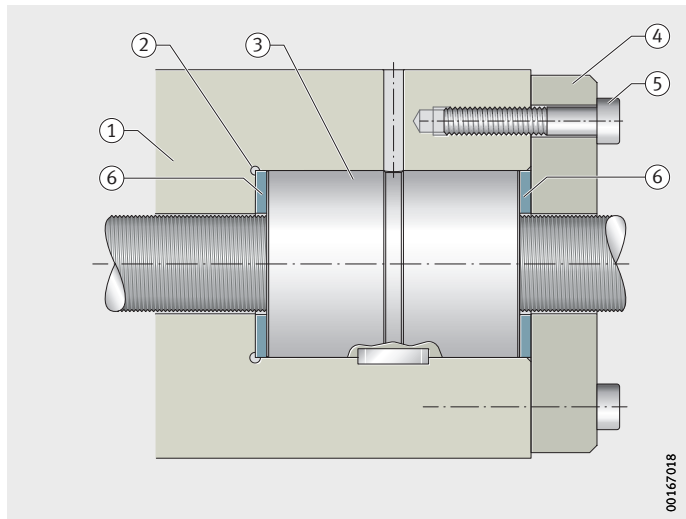
Location by pressure plate

The cylindrical threaded nuts are fitted in a housing with a cylindrical bore. For secure location, one side of the nut should be tapped against a shoulder in the housing or against a clinch ring, *Figure 3*. For non-hardened housings in particular, the use of hardened clinch rings is recommended. The transition between housing shoulder and housing bore must be produced with an undercut in accordance with DIN 509.

The opposite side of the nut must be secured with a pressure plate. The pressure plate is attached to the adjacent construction with set screws, which prevents axial displacement of the threaded nut in the housing.

- ① Housing
- ② Undercut in accordance with DIN 509
- ③ Threaded nut
- ④ Pressure plate
- ⑤ Fixing screws
- ⑥ Clinch ring

Figure 3
Location of threaded nut
by pressure plate



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Fixing screws If roller screw drives with cylindrical nuts are secured in the adjacent construction using a pressure plate, the specifications for the grade, thread, number and tightening torque of the fixing screws must be taken into account, see table.

Fixing screws for pressure plate

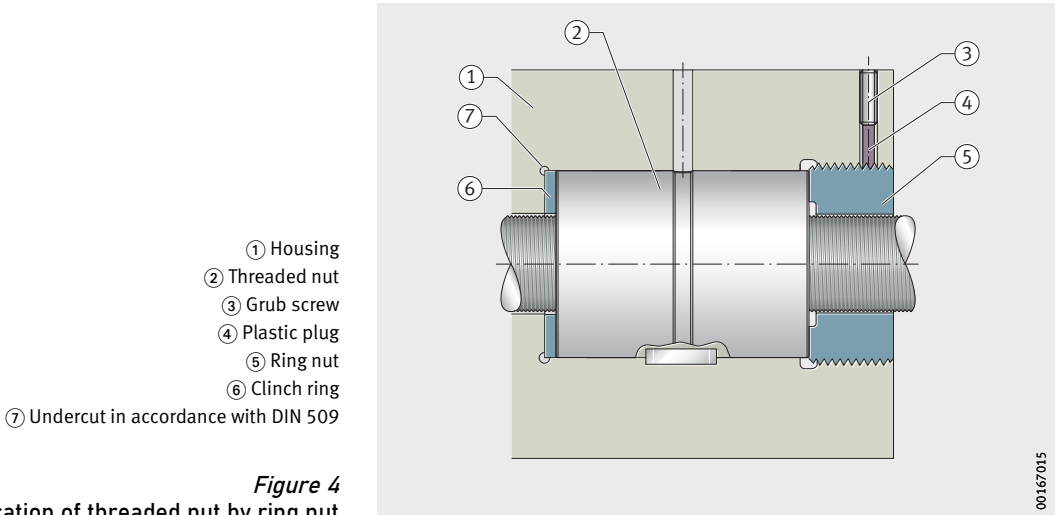
Nominal diameter d_0 mm	Fixing screws in accordance with DIN 912 and DIN 931 Grade 10.9		
	Thread	Number	Tightening torque M_A Nm
5	M4	4	3,2
8	M4	6	3
12	M4	6	3
15	M5	6	6
20	M5	6	6
21	M6	6	6
24	M6	6	6
25	M6	6	6
27	M6	6	10
30	M8	6	25
33	M8	6	25
36	M8	6	25
39	M10	6	51
44	M12	6	82
48	M12	6	82
56	M16	6	200
63	M16	6	200
78	M16	8	200
90	M16	8	200
100	M20	8	500

The threads of the screws must be oiled in order to rule out significantly varying coefficients of friction. The screws should then be tightened in a crosswise sequence to 50% of the specified tightening torque. This results in symmetrical loading of the nut. Finally, the fixing screws must be tightened to the specified value M_A .

Design of the adjacent construction

Location by ring nut

As an alternative to using a pressure plate for location purposes, roller screw drives with cylindrical nuts can also be located using a ring nut in the adjacent construction. This involves tapping one side of the threaded nut against a shoulder in the housing or against a clinch ring. The opposite side of the nut is secured against axial displacement with a ring nut, *Figure 4*.



The ring nut must be secured against rotation with a grub screw. A plastic plug must be inserted as a retainer between the ring nut and grub screw.

A clinch ring can be positioned between the nut and ring nut. The housing shoulder, ring nut and clinch ring must be designed in such a way that the threaded nut and optional wiper are not damaged.



Location by ring nut should always be used in preference over location by pressure plate for cylindrical nuts, wherever structural boundary conditions permit this.

Ring nuts If roller screw drives with cylindrical nuts are fixed in the adjacent construction using a ring nut, the specifications for the thread and tightening torque of the ring nut must be taken into account, see table. The strength of the ring nut must be determined by the customer.

Ring nuts for cylindrical nuts

Cylindrical nut		Ring nut	
Nominal diameter d_0 mm	Outside diameter D mm	Thread	Tightening torque Nm
5	19	M25×1	15
8	21	M30×1	20
	25	M30×1	20
12	32	M35×1	35
	26	M35×1	35
15	34	M40×1	45
	35	M40×1	45
20	42	M50×1	65
21	45	M50×1	65
24	48	M60×1	80
25	53	M60×1	80
27	55	M70×1,5	100
30	62	M70×1,5	100
	64	M70×1,5	100
33	68	M90×1,5	140
36	75	M90×1,5	140
39	80	M88×1,5	160
44	82	M88×1,5	160
48	96	M110×1,5	180
	100	M110×1,5	180
	86	M110×1,5	180
56	105	M110×1,5	180
63	118	M125×2	250
	122	M130×2	230
	115	M125×2	250
	120	M130×2	230
78	150	M158×2	310
90	175	M215×2,5	440
100	200	M215×2,5	440
	180	M215×2,5	440

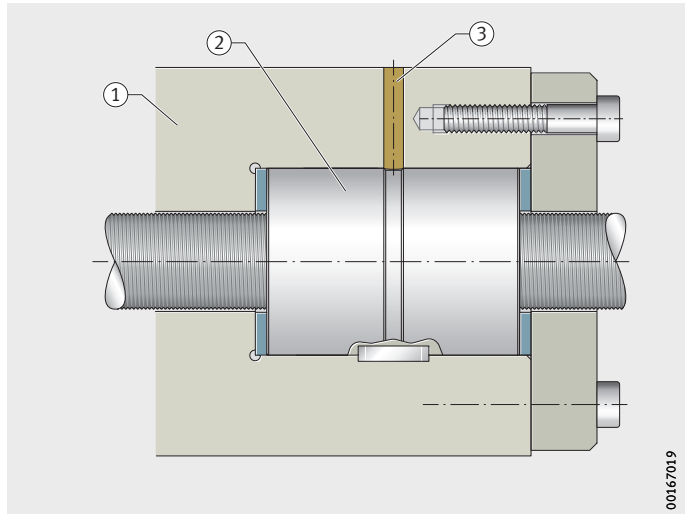
Design of the adjacent construction

Lubricant supply

Depending on the design, cylindrical threaded nuts RGT-VTE, RGT-STE and RGT-VTG have lubrication holes in the nut body or can be relubricated via the shim. The adjacent construction must be produced with a feed hole for this purpose, *Figure 5*.

- ① Housing
- ② Threaded nut
- ③ Feed hole

Figure 5
Lubricant supply
for cylindrical threaded nut



Flanged nuts with screw mounting facility

Mounting tolerances

In order to achieve the full function and operating life of roller screw drives, the tolerance specifications provided for the installation space of threaded nuts must be observed, *Figure 6*.

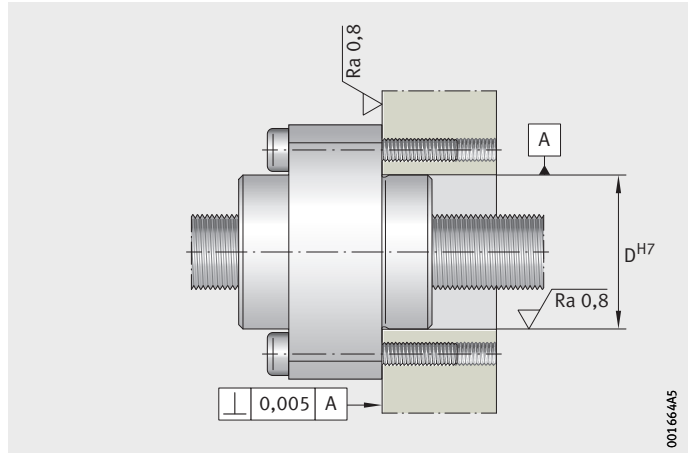


Figure 6
Mounting tolerances
for threaded nuts
with screw-mountable flange

Location

For the flanged nuts used with roller screw drives RGT-VTO, RGT-STO, RGT-VTM, RGT-STM, RGT-VTK, RGT-STK, RGT-VTL, RGT-VTS and roller screw drives with roller return RGT-VRM, RGT-SRM, RGT-VRK, RGT-SRK, RGT-VRL, the adjacent construction must be produced with a centring device and threaded holes for the fixing screws, *Figure 7*.

- ① Housing
- ② Centring device
- ③ Fixing screws
- ④ Threaded nut

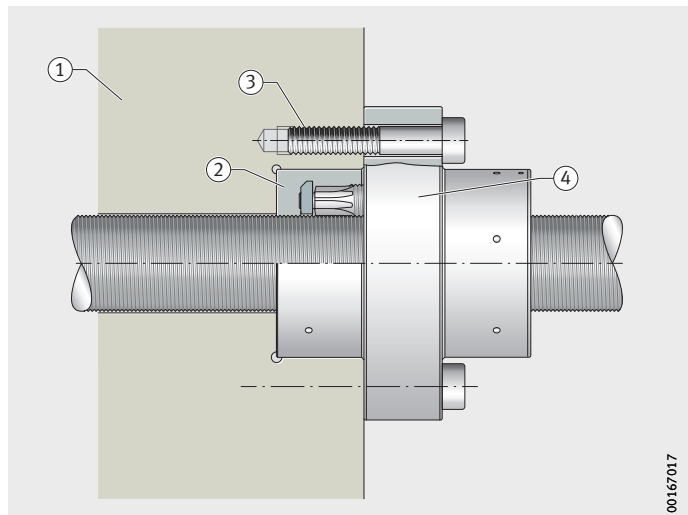


Figure 7
Location of a flanged nut
with screw mounting facility

Bore pitch circles, see dimension tables.

Design of the adjacent construction

Fixing screws

The specifications for the grade, thread, number, and tightening torque of the fixing screws must be taken into account, see table.

Fixing screws for flanged nuts with screw mounting facility

Nominal diameter d_0 mm	Fixing screws in accordance with DIN 912 and DIN 931		
	Thread	Number	Tightening torque M_A Nm
Grade 10.9			
5	M4	6	3
8	M4	6	3
12	M4	6	3
15	M5	6	10
20	M5	6	10
21	M5	6	10
24	M6	6	15
25	M6	6	15
27	M6	6	15
30	M8	6	25
36	M8	6	25
39	M10	6	72
44	M10	6	72
48	5 thread starts	M12	6
48	6 thread starts	M10	8
56		M12	6
Grade 12.9			
63	M16	6	200
78	M16	8	310
90	M16	8	310
100	M16	12	310
120	M16	12	310
135	M20	12	650
150	M24	12	1 100
180	M22	12	900
210	M24	12	1 100
245	M20	24	650

Bore pitch circles, see dimension tables.

Lubricant supply

Flanged nuts with screw mounting facility RGT-VT0, RGT-ST0, RGT-VTM, RGT-STM, RGT-VTK, RGT-STK, RGT-VTL are relubricated via a lubrication connector in the flange. As a result, there is no need for a feed hole in the adjacent construction.

Flanged nuts with screw-in thread Mounting tolerances

In order to achieve the full function and operating life of roller screw drives, the tolerance specifications provided for the installation space of threaded nuts must be observed, *Figure 8*.

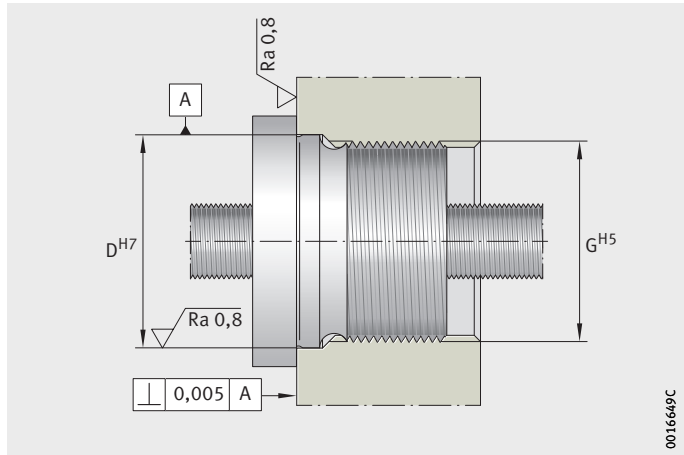


Figure 8
Mounting tolerances
for flanged nut with screw-in thread

Location

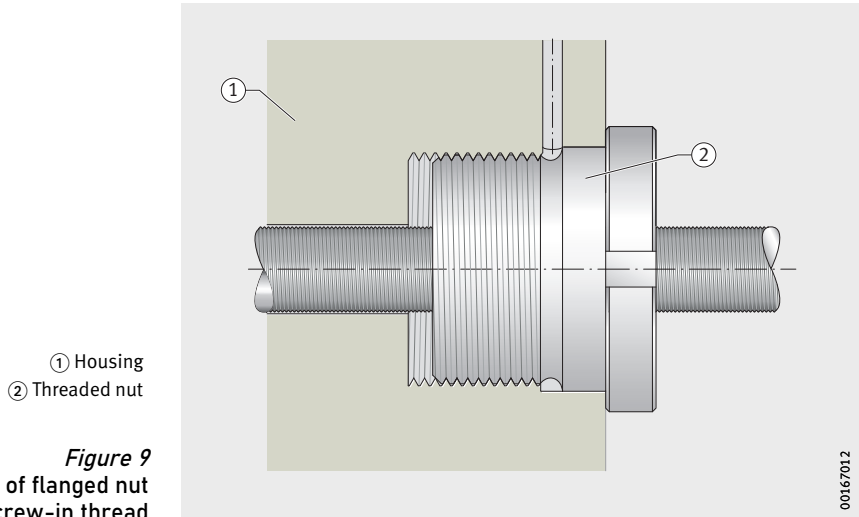
Tightening torque M_A must be observed when screwing in the threaded flanged nut for roller screw drives RGT-VTF and RGT-STF, see table.

Tightening torque M_A

Nominal diameter d_0 mm	Pitch	Tightening torque M_A Nm
8	1	30
	2	
	4	
	5	
12	1	40
	2	
	4	
	5	
	10	
15	2	60
	4	
	5	
	8	
	10	
20	2	100
	4	
	5	
	6	
	10	
	12	

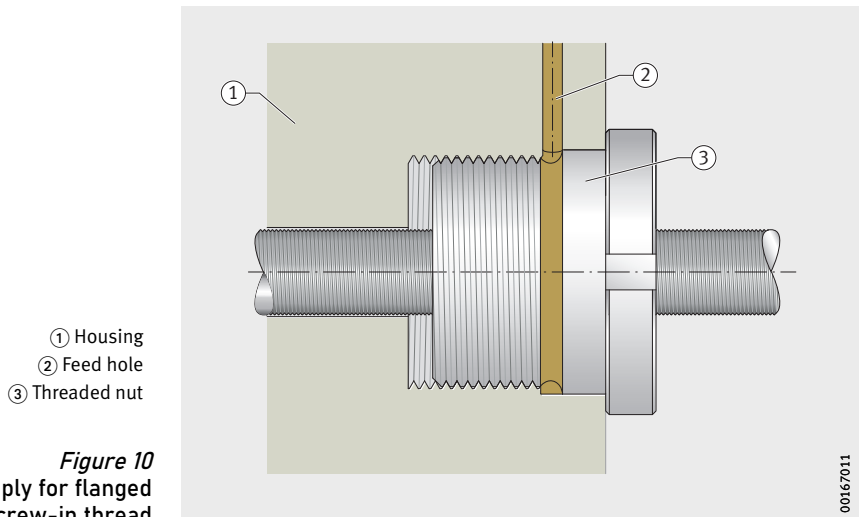
Design of the adjacent construction

The adjacent construction must be produced with a centring device and a threaded hole, *Figure 9*.



Lubricant supply

Flanged nuts RGT-VTF have a threaded lubrication hole between the centring device and fixing thread. The adjacent construction must be designed with a feed hole for this purpose, *Figure 10*.



Mounting and dismounting

General guidelines

In the interests of the user, the applicable legal regulations and other directives relating to environmental protection and occupational safety must be observed.

Mounting may only be carried by qualified personnel. If bearings are fitted incorrectly, no liability can be accepted.



Roller screw drives are high-precision machine elements. To ensure that these products function properly and are safe to operate, they must be handled with great care both before and during fitting, and all fitting instructions must be observed.

Delivered condition

Roller screw drives GSA are supplied with an initial grease application of low-noise barium complex soap grease based on diester oil KPE2K-30 in accordance with DIN 51825 erstbefettet und einzeln in einem versiegelten Folienschlauch verpackt.

Depending on the size, they are delivered in polystyrene or cardboard containers. The containers protect the roller screw drives effectively against transport damage.

Storage of roller screw drives

Roller screw drives should be stored as follows:

- in the original packaging
- in clean, dry areas
- at as constant a temperature as possible
- at a relative humidity of max 65%

Due to the greases used, roller screw drives supplied with an initial grease application can usually be stored in the original packaging for 3 years.

Removal of roller screw drives

The following must be observed when removing roller screw drives from the packaging:

- Roller screw drives should not be removed from their original packaging until immediately before fitting.
- Hands should be kept clean and dry and protective gloves worn if necessary. Perspiration leads to corrosion.
- If the original packaging is damaged, the products must be checked.

Basic rules for the handling of roller screw drives

Basic rules for avoiding damage to the roller screw drive:

- Prevent the introduction of contaminants into the threaded nut.
- Do not fit the threaded nut from the spindle or fit using fitting mandrel MD only, *Figure 1*, page 51.
- Protect the spindle thread against damage.
- Do not exert any radial forces on the threaded nut.

Lubrication other than initial greasing

The grease used for initial grease application covers a broad application range, but is not suitable for:

- very high operating temperatures
- very low operating temperatures
- Oil lubrication

For these applications, the lubrication grease used for initial grease application must be washed out using an organic cleaning agent such as paraffin oil that is free from acid and water, or petroleum ether. Roller screw drives can also be ordered with preservative.



The roller screw drives must be dried thoroughly and greased with the specified high or low temperature grease, or thoroughly oiled with the specified lubricating oil, immediately after cleaning.

Legal regulations relating to handling, environmental protection and health and safety at work must be observed. The specifications of cleaning agent manufacturers must be observed. Paraffin oil and petroleum ether are flammable substances.

Dismounting and mounting threaded nuts

The threaded nut should only be removed from the threaded spindle in exceptional cases and following prior consultation.

Particularly in the case of screw drives with small pitches, there is a risk of the threaded rollers becoming axially or radially displaced from their original position if the threaded nut is separated from the spindle. This is detrimental to the function of the roller screw drive.



Fitting mandrel MD must be used to remove the threaded nut, *Figure 1*.

For thread pitches P of less than 2, mounting mandrel MD must always be used.

- ① Fitting mandrel
- ② Threaded spindle
- ③ Threaded nut

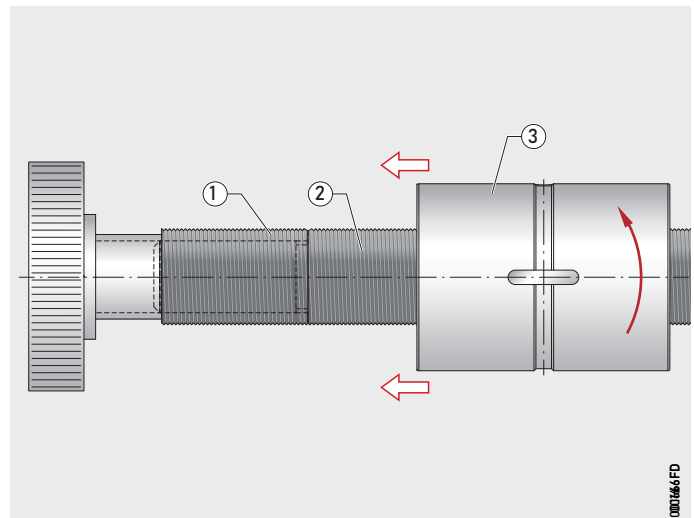


Figure 1
Dismounting the threaded nut using the fitting mandrel

Mounting and dismounting

- Operation sequence** Operation sequence for dismounting and subsequent remounting of the threaded nut:
- Place the fitting mandrel on the shaft journal on the non-locating bearing side.
 - Carefully turn the threaded nut over its entire length from the non-locating bearing side of the spindle onto the fitting mandrel.
 - Keep the threaded nut on the fitting mandrel. Do not remove the mandrel.
 - Fit the nut carefully in the reverse sequence.
 - Lightly grease or oil the thread of the spindle. Make sure that the lubricant is suitable, see section Lubrication, page 23.
 - Distribute the applied lubricant evenly over the entire stroke length by moving the threaded nut.

Non-locating bearing arrangement

Locating bearing arrangement

Drawn cup needle roller bearings with open ends and needle roller bearings with and without an inner ring are normally used on the non-locating bearing side.

The following GSA bearing components in particular are used on the locating bearing side:

- axial angular contact ball bearings
- needle roller/axial cylindrical roller bearings
- seal carrier assemblies
- precision locknuts
- Fit the non-locating side of the threaded spindle, using sealing rings where required, in the adjacent construction.
- Align the table guidance system and spindle parallel with the axis.
- Depending on the design (cylindrical or flanged nut), fasten the threaded nut in or on the adjacent construction.
- Mount the locating bearing on the spindle and fasten in the adjacent construction. Preload the bearing using the precision locknut.
- Supply the roller screw drives and bearing components with lubricant.
- Carry out the function test:
Move the threaded nut over the stroke length. The nut must move easily and smoothly. Take account of idling frictional torque, see dimension tables.

- ① Non-locating bearing
- ② Threaded spindle
- ③ Table guidance system
- ④ Threaded nut
- ⑤ Locating bearing
- ⑥ Locknut

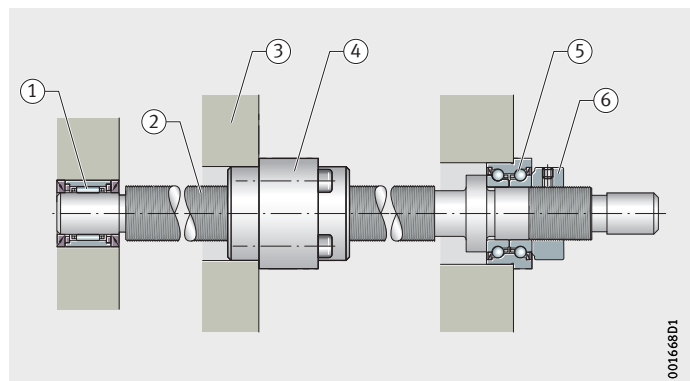


Figure 2
Fitting example for a unit

Roller screw drives

Roller screw drives

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	Design 59
	Functional principle 61
	Load carrying capacity 62
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Product overview Roller screw drives

Single-piece
Cylindrical nut

RGT-VTE, RGT-STE

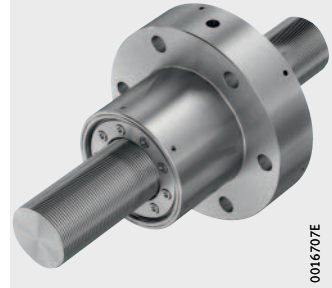


Flanged nut

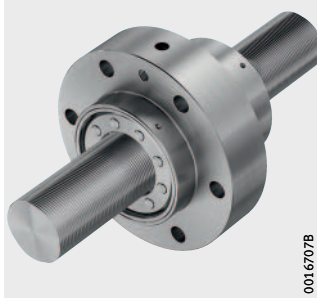
RGT-VTK, RGT-STK



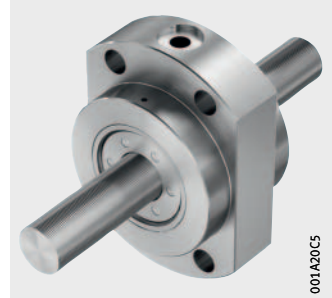
RGT-VTM, RGT-STM



RGT-VTO, RGT-STO



RGT-VTS



Flanged nut with screw-in thread

RGT-VTF, RGT-STF



Two-piece
Cylindrical nut

RGT-VTG



Flanged nut

RGT-VTL



Product overview Roller screw drives

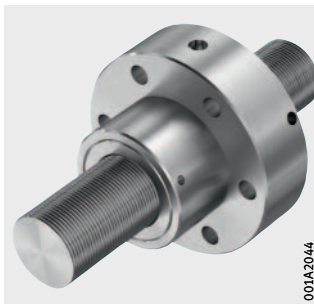
With roller return, single-piece
Cylindrical nut

RGT-VRE, RGT-SRE

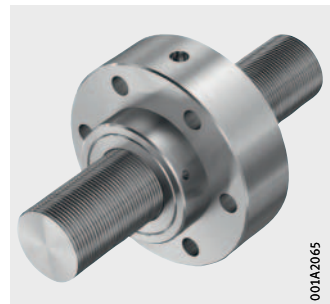


Flanged nut

RGT-VRM, RGT-SRM



RGT-VRK, RGT-SRK



With roller return, two-piece
Cylindrical nut

RGT-VRG



Flanged nut

RGT-VRL



Roller screw drives

Features

Outstanding characteristics of roller screw drives

GSA roller screw drives have the following characteristic features:

- high axial load carrying capacity
- high axial rigidity
- high limiting speed and travel velocity
- high acceleration and deceleration
- high positional accuracy and repeat accuracy
- particularly high positional accuracy due to minimal pitches for roller screw drives with roller return

Design

The main components of roller screw drives are the threaded nut and the threaded spindle.

Depending on the diameter, threaded spindles are usually available up to a length of 10 m. If longer threaded spindles are required, please contact us.

Roller screw drive RGT

The threaded nut contains threaded rollers, which are arranged parallel to the axis. The rollers are supported in guide discs, which are located with a rotation facility at the end faces of the threaded nut. The threaded nut also contains two geared rings that are inserted in the body of the nut and secured against rotation, and which mesh with the gear teeth of the threaded rollers.

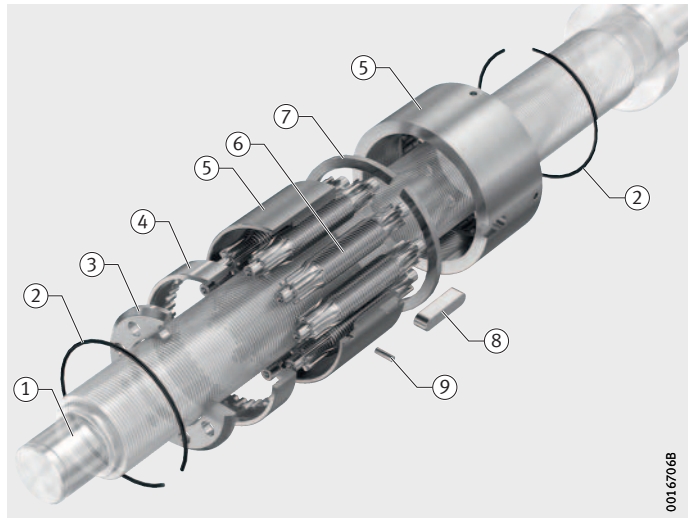
The threaded nut and threaded spindle have identical, multi-start threads with straight flanks. The threaded rollers have single-start threads with crowned flanks.

The structure of a roller screw drive is illustrated below using the example of a design with a two-piece threaded nut, *Figure 1*, page 60. Dividing the threaded nut and using a shim allows the preload to be set to a specific value.

Roller screw drives

- ① Threaded spindle
- ② Retaining ring
- ③ Guide disc
- ④ Geared ring
- ⑤ Threaded nut, two-piece
- ⑥ Threaded roller
- ⑦ Shim
- ⑧ Feather key
- ⑨ Retaining pin

Figure 1
Roller screw drive design,
two-piece threaded nut



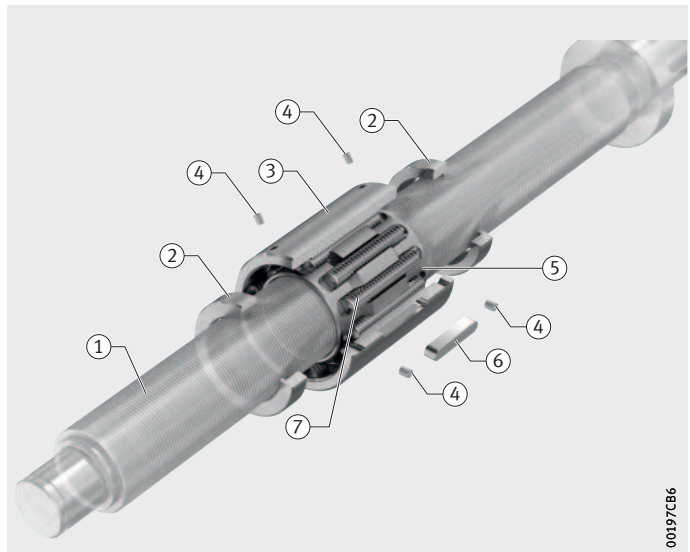
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Roller screw drive with roller return RGTR

Roller screw drives with roller return have a small pitch combined with a large spindle diameter and can therefore achieve high levels of positional and repeat accuracy. The main components are the spindle, nut and rollers, *Figure 2*.

- ① Threaded spindle
- ② Cam
- ③ Threaded nut
- ④ Retaining pin
- ⑤ Cage
- ⑥ Feather key
- ⑦ Threaded roller

Figure 2
Roller screw drive design
with roller return



00197CB6

Functional principle With roller screw drives, the rotational motion of a driven threaded spindle supported in a fixed position is converted into linear motion of the threaded nut.

As the threaded spindle rotates, the threaded rollers rotate in plan-etary motion about the threaded spindle. The flanks of the threaded rollers roll on the flanks of the threaded spindle and threaded nut. There is no axial displacement of the threaded rollers relative to the threaded nut, since the axial displacement components of the contact points of both elements are identical. This is achieved by matching the spindle, nut and roller diameters.

The threaded rollers have journals at both ends, which support the threaded rollers parallel to the axis in the holes of the guide discs. The guide discs rotate in the threaded nut and are axially secured by means of retaining rings.

The geared ends of the threaded rollers mesh in the internal gearing of the geared rings in the threaded nut, resulting in synchronised running of the threaded rollers and threaded nut.

Functional principle of the roller return

The spindle and nut have a single-start or double-start profile. The spindle and nut have the same profile. The rollers have grooves at pitch distance only. The resulting relative movement between the nut and rollers means that the rollers have to be lifted off the spindle and returned by means of a special nut geometry.

The high degree of efficiency enables a low input torque. Due to the low space requirement, RGTR are used in applications where reliability and optimum performance are crucial in a minimal installation space.

Roller screw drives

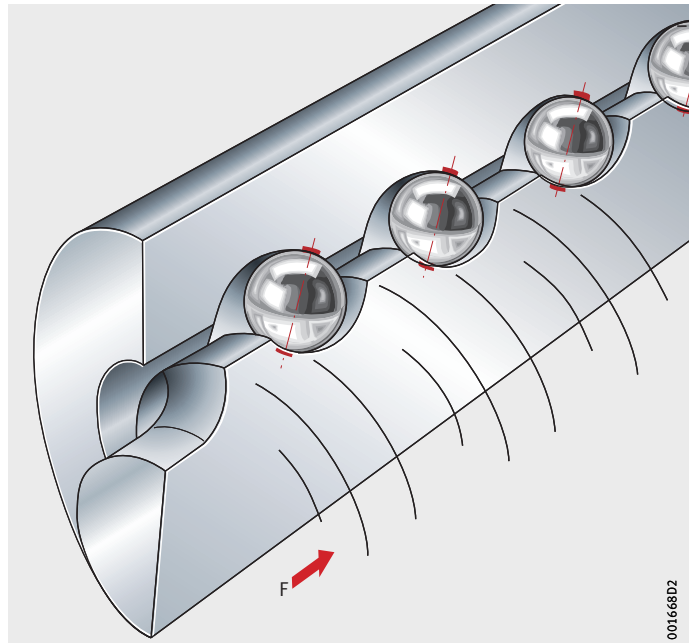
Load carrying capacity

Due to the large number of contact points, roller screw drives have a high load carrying capacity and are characterised by a long operating life.

For example, a roller screw drive with a nominal diameter d_0 of 12 mm and a pitch P_z of 4 mm has around 140 effective contact points for force transmission.

Comparison of the load carrying capacity of ball screw drives and roller screw drives

In ball screw drives, the occurring loads are transmitted from the spindle to the nut via the balls. According to the laws of Hertzian pressure, the load carrying capacity of the balls is determined by their diameter, however, the diameter of the rolling elements cannot exceed the pitch of the thread. As a rule, the diameter is, actually, 30% to 40% smaller. The load carrying capacity is also influenced by the number of effective contact points, *Figure 3*.



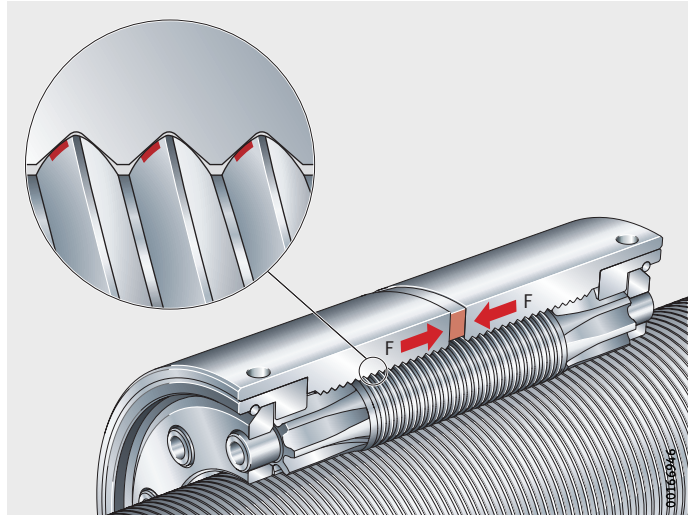
F = force

Figure 3

Contact surfaces in ball screw drives

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The load carrying capacity of roller screw drives is considerably higher than the load carrying capacity of comparable ball screw drives. This high load carrying capacity is achieved through the use of threaded rollers as rolling elements and the resulting high number of contact surfaces, *Figure 4*.



F = force

Figure 4
Contact surfaces
in roller screw drives

In particular, ball screw drives with small pitches only have a very low load carrying capacity compared with roller screw drives.

Also, unlike ball screw drives, roller screw drives do not require a return mechanism as the rolling elements do not move relative to the nut. As a result, considerably higher limiting speeds and smoother running can be achieved with roller screw drives.

Operating temperature

As standard, roller screw drives can be used at operating temperatures from $-40\text{ }^{\circ}\text{C}$ to $+130\text{ }^{\circ}\text{C}$.

Roller screw drives

Design and safety guidelines

Preload

Advantages of preload

GSA roller screw drives are preloaded as standard. The preload is set at the factory.

Preload gives roller screw drives two major advantages:

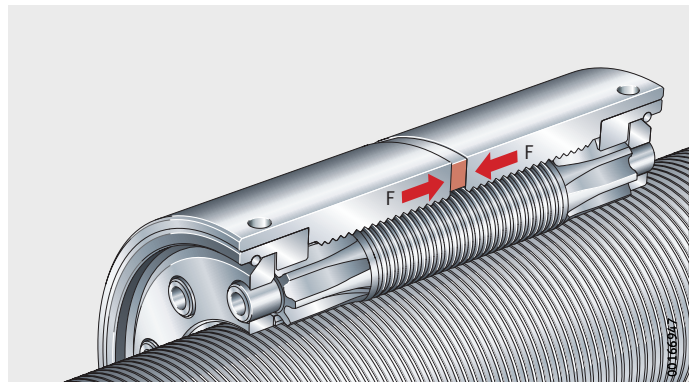
- increased rigidity
- increased positional accuracy

However, preload also affects the idling frictional torque of the nut and thus the drive torque and life of the roller screw drive.

Two-piece threaded nuts

In the case of two-piece threaded nuts RGT-VTG, RGT-VTL, RGT-VRG and RGT-VRL, an external axial preload force is applied to the two halves of the nut, which braces them against each other. A shim is located between the two halves, which limits the preload force generated in the screw drive to a defined value. The preload force has a direct influence on the idling frictional torque, see dimension tables.

The rolling contacts subjected to preload are on the left threaded flank in one half of the nut and on the right threaded flank in the other half of the nut, *Figure 5*.



F = force

Figure 5

Preload on a two-piece threaded nut

Two-piece preloaded threaded nuts have a lower load carrying capacity and rigidity than single-piece preloaded nuts. Due to the high load carrying capacity and rigidity of roller screw drives, however, a two-piece nut is usually sufficient for most applications.



The preload set at the factory must not be changed. The nut and shim form a unit and must not be separated.

Single-piece threaded nuts	<p>In the case of single-piece threaded nuts RGT-VTE, RGT-VT0, RGT-VTM, RGT-VTF, RGT-VTS, RGT-VRK, RGT-VRE, RGT-VRM and RGT-VRK, the preload is set by measuring the pitch circles and subsequently sorting the spindle, threaded rollers and nut according to their dimensions.</p> <p>Preload is applied to both the left and right threaded flanks, over the entire thread length of the nut. As a result, the basic load ratings of the nut are higher than for two-piece threaded nuts.</p>
Temperature influence	<p>Particular attention must be paid to the correct preload if the roller screw drives are exposed to significant fluctuations in temperature. Please contact us if such application conditions are present.</p>

Roller screw drives

Accuracy

Accuracy classes

Roller screw drives are available in the accuracy class KL10 or, by agreement, in the higher accuracy class KL05.

Accuracy class	Pitch tolerance ¹⁾ mm
KL10	±0,01
KL05	±0,005

¹⁾ Deviation over 315 mm thread length.

Pitch accuracy

The threaded spindles for roller screw drives have a high pitch accuracy, which is achieved in part through the use of special production processes, temperature-controlled grinding rooms and grinding operations performed under constant temperature conditions.

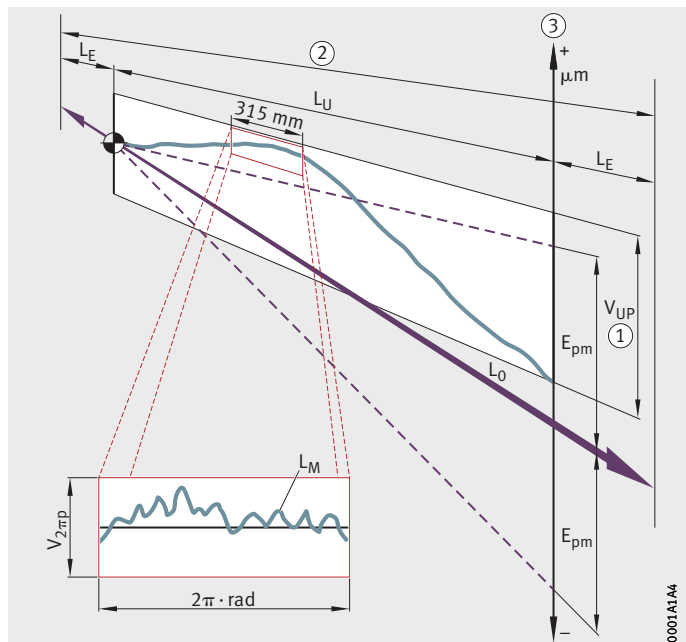
Quality logs for threaded spindles are generated using laser interferometer measuring devices, with measurements carried out at a temperature of 20 °C. The roller screw drives can be supplied with a measurement protocol on request, for a small additional charge.

The pitch is only measured automatically for roller screw drives with accuracy class KL05 and incorporated in a delivered measurement protocol.

The maximum values for the pitch deviation E_{pm} and the spread for pitch deviation V_{UP} are shown in table, page 67. They are only valid for reference lengths up to 1800 mm.

- ① Spread for the total measurement distance
- ② Thread length
- ③ Pitch deviation

Figure 6
Pitch deviation diagram



0001A1/A4

**Pitch accuracy
for threaded spindles**

Thread length		Accuracy class			
L_U		KL05		KL10	
from mm	including mm	E_{pm} μm	V_{UP} μm	E_{pm} μm	V_{UP} μm
0	315	5	5	10	10
315	400	6	5	11	10
400	500	7	6	13	11
500	630	8	6	14	12
630	800	9	7	18	14
800	1 000	10	8	19	15
1 000	1 250	12	9	22	17
1 250	1 600	14	10	27	20
1 600	1 800	17	12	34	23

L_U mm
Effective thread length and reference length for measurement of the pitch accuracy.

L_E mm
Safety thread length located outside of the effective thread length. This thread length is not taken into consideration when measuring the pitch accuracy.

L_0 mm
Nominal axial travel length; calculated from the nominal pitch of the thread multiplied by the number of revolutions $L_0 = L_U + 2L_E$.

L_M mm
Actual mean pitch deviation. Generated graphically as a best-fit line from the actual pitch deviation.

V_{UP} μm
Pitch deviation spread or spread for the total measurement distance.

E_{pm} μm
Permissible mean pitch deviation (\pm) relative to effective thread length and reference length L_U .

**Ordering example,
ordering designation**

The ordering designation follows the specified system. Roller screw drives (standard), *Figure 7*, page 68, roller screw drives with roller return, *Figure 8*, page 69.

Roller screw drives

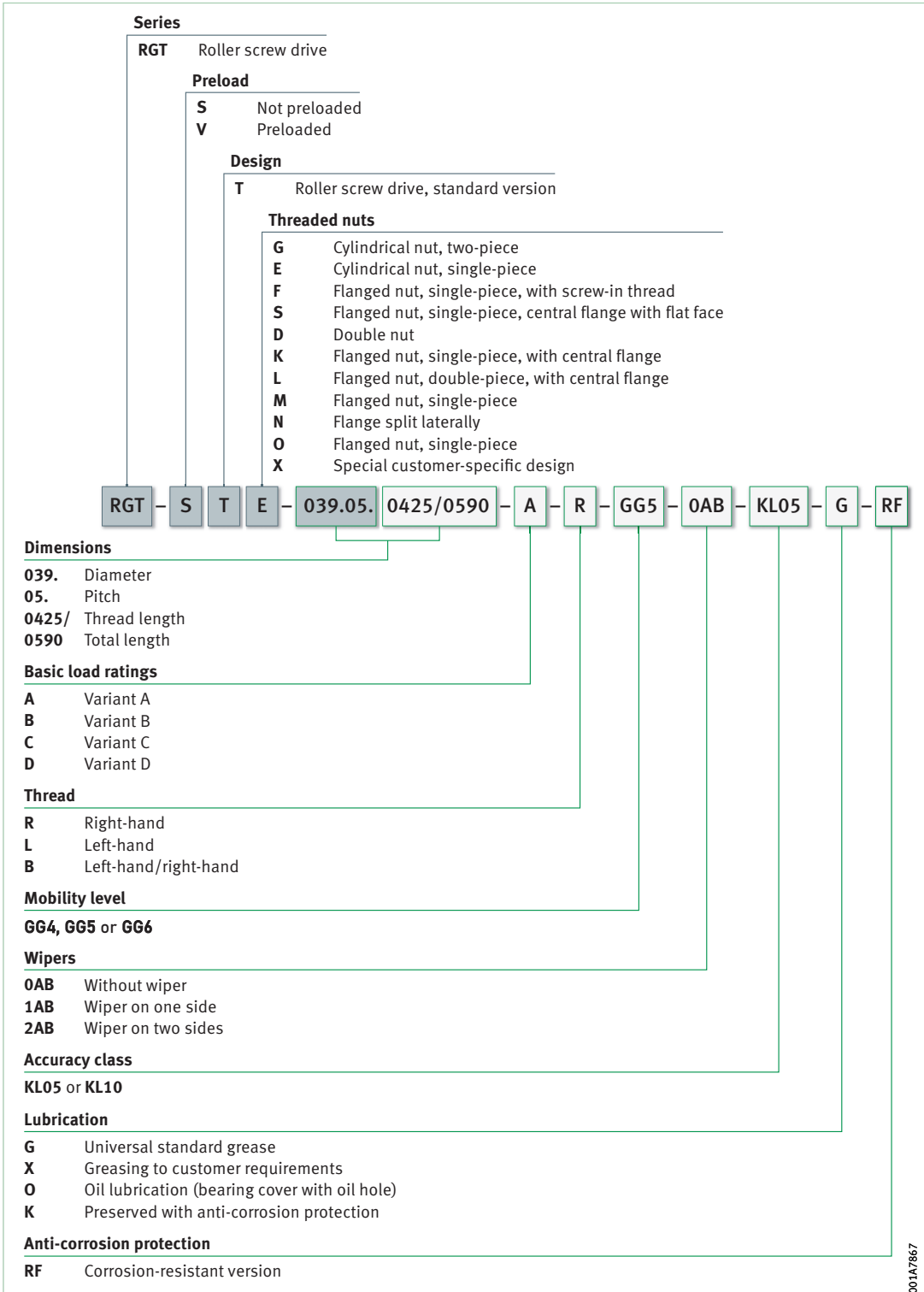


Figure 7
RGT standard

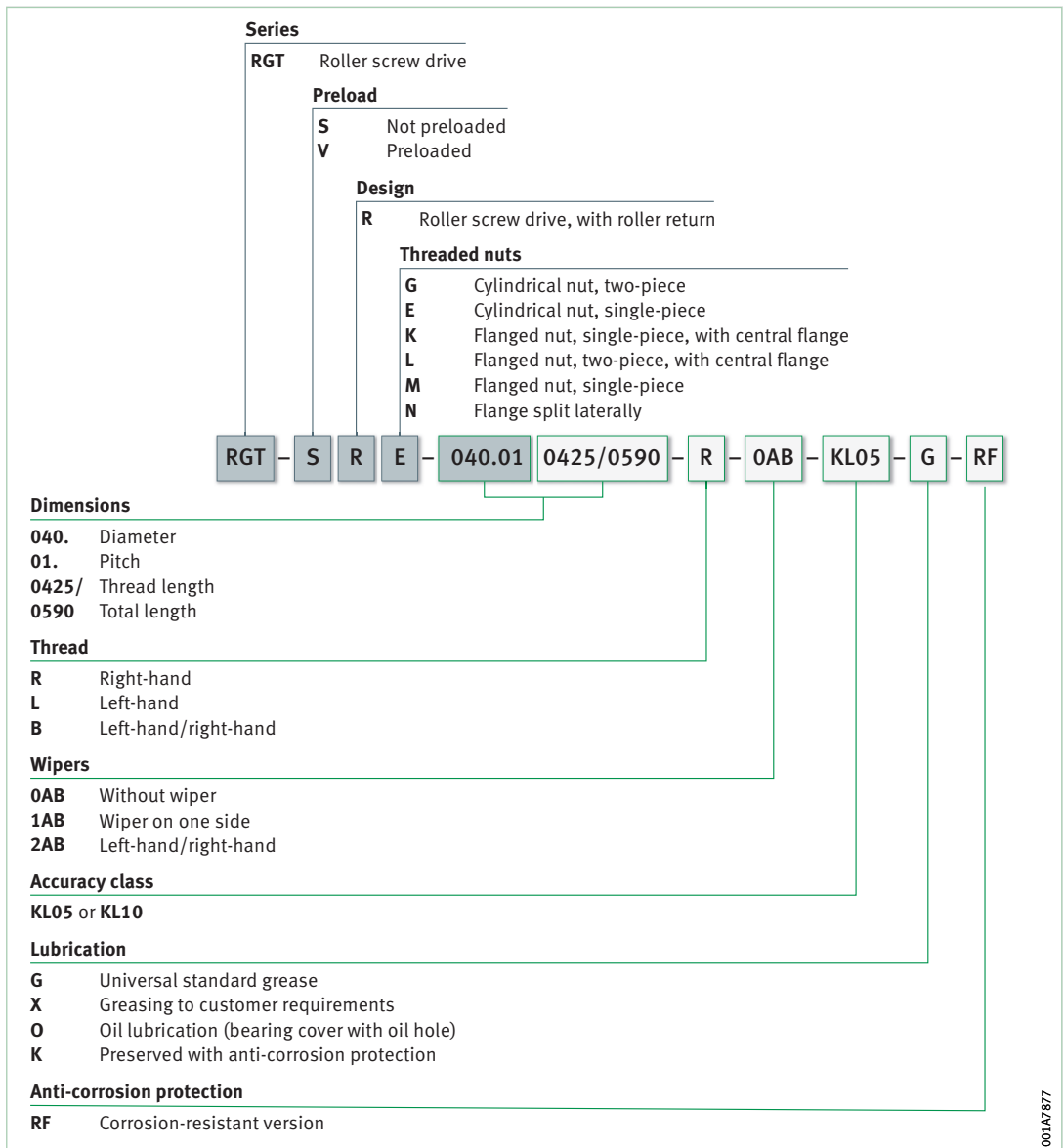
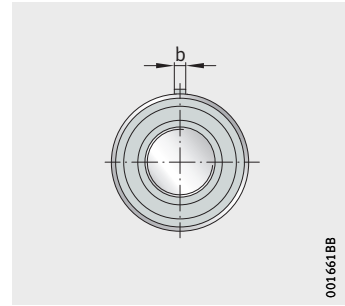


Figure 8
RGT with roller return

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

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Dimension table · Dimensions in mm

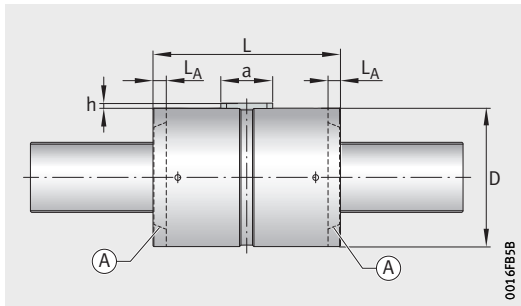
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
5	RGT-VTE-005.01 RGT-STE-005.01	1	3	A	–	0,1	19	31	–	10	3	1,2
				A	●			41				
				B	–			41				
	RGT-VTE-005.02 RGT-STE-005.02	2	3	A	–	0,1	19	31	–	10	3	1,2
				A	●			41				
				B	–			41				
	RGT-VTE-005.04 RGT-STE-005.04	4	3	A	–	0,1	19	31	–	10	3	1,2
				A	●			41				
				B	–			41				

⊗ Wipers: ● with wiper.

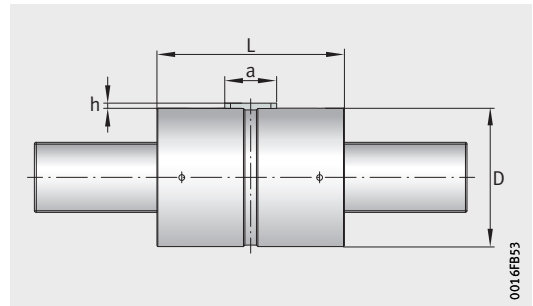
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTE.

3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

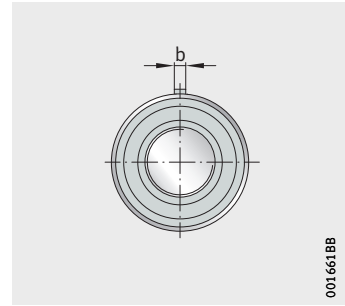


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
3×3×10	4 700	9 600	35,8	3	0,85	0,82	6 000	0,01
	4 700	9 600	35,8					
	7 400	20 600	51,5					
3×3×10	5 500	9 700	22,5	4	0,86	0,84	6 000	0,01
	5 500	9 700	22,5					
	8 700	20 700	32,3					
3×3×10	6 000	9 300	13,7	5	0,74	0,65	6 000	0,01
	6 000	9 300	13,7					
	9 900	20 900	20,3					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

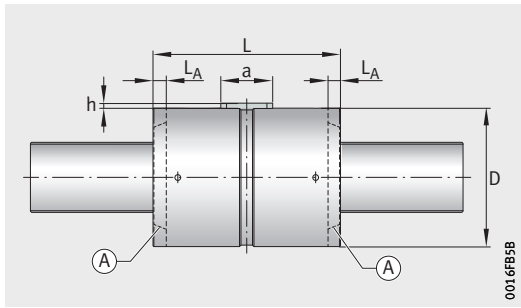
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Dimension table (continued) · Dimensions in mm

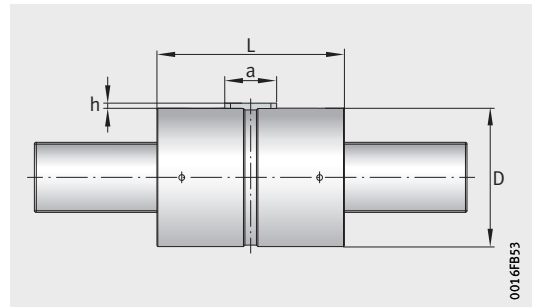
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
8	RGT-VTE-008.01 RGT-STE-008.01	1	4	A	–	0,1	21	31	–	10	3	1,2
				A	●			41	–			
				B	–			41	–			
		1	4	C	–	0,1	25	44	–	10	3	1,2
				C	●			44	–			
				D	–			44	–			
	RGT-VTE-008.02 RGT-STE-008.02	2	4	A	–	0,1	21	31	–	10	3	1,2
				A	●			41	–			
				B	–			41	–			
		2	4	C	–	0,1	25	44	–	10	3	1,2
				C	●			44	–			
				D	–			44	–			
RGT-VTE-008.04 RGT-STE-008.04	4	4	A	–	0,1	21	31	–	10	3	1,2	
			A	●			41	–				
			B	–			41	–				
	4	4	C	–	0,1	25	44	–	10	3	1,2	
			C	●			44	–				
			D	–			44	–				
RGT-VTE-008.05 RGT-STE-008.05	5	4	A	–	0,1	21	31	–	10	3	1,2	
			A	●			41	–				
			B	–			41	–				
	5	4	C	–	0,1	25	44	–	10	3	1,2	
			C	●			44	–				
			D	–			44	–				

Ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

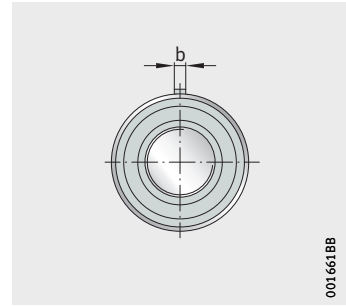


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C ₀ N			η_1	η_2		
3×3×10	7 500	14 600	54,0	3	0,79	0,73	5 800	0,02
	7 500	14 600	54,0					
	12 000	30 800	77,3					
3×3×10	8 800	19 300	61,5	3	0,79	0,73	5 800	0,02
	8 800	19 300	61,5					
	13 300	36 000	83,7					
3×3×10	8 700	14 700	34,0	4	0,85	0,83	5 800	0,02
	8 700	14 700	34,0					
	14 000	30 900	48,7					
3×3×10	10 300	19 400	38,7	4	0,85	0,83	5 800	0,02
	10 300	19 400	38,7					
	15 500	36 100	52,7					
3×3×10	10 000	14 900	21,4	5	0,85	0,83	5 800	0,02
	10 000	14 900	21,4					
	16 100	31 100	30,7					
3×3×10	11 900	19 600	24,4	5	0,85	0,83	5 800	0,02
	11 900	19 600	24,4					
	17 900	36 300	33,2					
3×3×10	10 300	14 700	18,2	6	0,83	0,80	5 800	0,02
	10 300	14 700	18,2					
	16 600	30 800	26,3					
3×3×10	11 900	18 500	20,4	6	0,83	0,80	5 800	0,02
	11 900	18 500	20,4					
	18 200	35 100	28,1					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

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Dimension table (continued) · Dimensions in mm

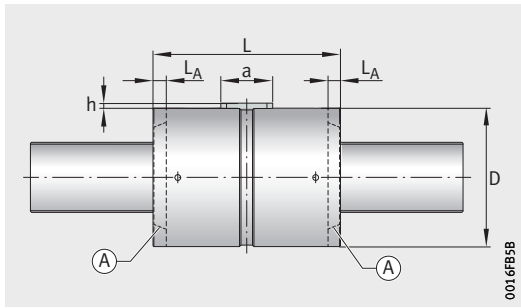
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L _A	a	b h9	h
12	RGT-VTE-012.01 RGT-STE-012.01	1	4	A	–	0,1	32	31	–	14	4	1,7
				A	●	0,2		41	–			
				B	–	0,2		41	–			
		1	4	C	–	0,2	32	44	–	14	4	1,5
				C	●	0,2		44	–			
				D	–	0,2		44	–			
	RGT-VTE-012.02 RGT-STE-012.02	2	5	A	–	0,1	26	31	–	14	4	2,0
				A	●	0,2		41	–			
				B	–	0,2		41	–			
		2	5	C	–	0,2	30	44	–	14	4	1,5
				C	●	0,2		44	–			
	RGT-VTE-012.04 RGT-STE-012.04	4	5	A	–	0,1	26	31	–	14	4	2,0
				A	●	0,2		41	–			
				B	–	0,2		41	–			
		4	5	C	–	0,2	30	44	–	14	4	1,5
				C	●	0,2		44	–			
RGT-VTE-012.05 RGT-STE-012.05	5	5	A	–	0,1	26	31	–	14	4	2,0	
			A	●	0,2		41	–				
			B	–	0,2		41	–				
	5	5	C	–	0,2	30	44	–	14	4	1,5	
			C	●	0,2		44	–				
RGT-VTE-012.10 RGT-STE-012.10	10	5	A	–	0,1	26	31	–	14	4	2,0	
			A	●	0,2		41	–				
			B	–	0,2		41	–				
	10	5	C	–	0,2	30	44	–	14	4	1,5	
			C	●	0,2		44	–				

⊗ Wipers: ● with wiper.

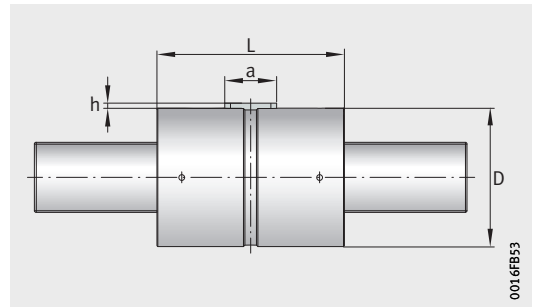
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTE.

3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

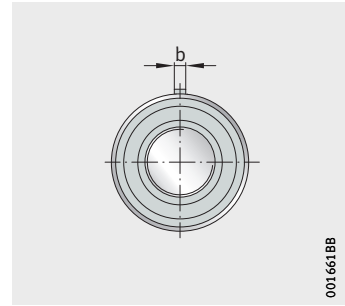


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
4×4×14	11 300	15 300	51,9	3	0,73	0,62	5 600	0,02
	11 300	15 300	51,9					
	18 900	36 000	76,5					
4×4×14	13 400	20 500	59,1	3	0,73	0,62	5 600	0,02
	13 400	20 500	59,1					
	20 200	40 100	80,5					
4×4×14	13 500	20 000	46,8	4	0,82	0,78	5 600	0,02
	13 500	20 000	46,8					
	24 000	48 700	72,2					
4×4×14	15 800	25 900	52,9	4	0,82	0,78	5 600	0,02
	15 800	25 900	52,9					
4×4×14	15 100	19 400	28,9	5	0,86	0,84	5 600	0,02
	15 100	19 400	28,9					
	27 300	48 000	45,0					
4×4×14	18 300	26 200	33,3	5	0,86	0,84	5 600	0,02
	18 300	26 200	33,3					
4×4×14	16 200	20 400	25,4	6	0,86	0,84	5 600	0,02
	16 200	20 400	25,4					
	29 100	49 500	39,4					
4×4×14	19 300	26 700	28,9	6	0,86	0,84	5 600	0,02
	19 300	26 700	28,9					
4×4×14	18 200	20 900	16,0	8	0,77	0,69	5 600	0,02
	18 200	20 900	16,0					
	31 600	47 700	24,2					
4×4×14	20 500	25 100	17,5	8	0,77	0,69	5 600	0,02
	20 500	25 100	17,5					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

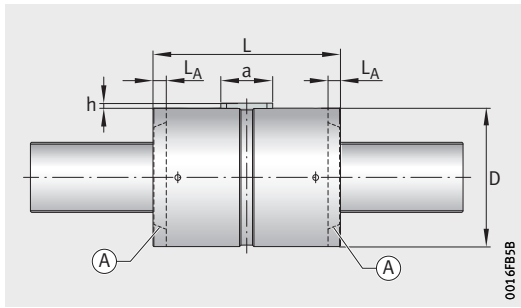
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Dimension table (continued) · Dimensions in mm

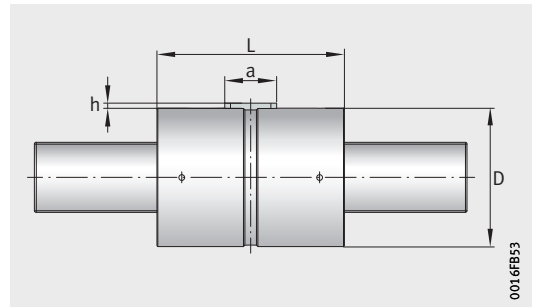
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
15	RGT-VTE-015.02 RGT-STE-015.02	2	5	A	–	0,2	34	35	–	14	4	1,5
				A	●	0,2		45	–			
				B	–	0,2		45	–			
		2	5	C	–	0,3	35	50	–	14	4	1,5
				C	●	0,3		50	–			
				D	–	0,3		50	–			
	RGT-VTE-015.04 RGT-STE-015.04	4	5	A	–	0,2	34	35	–	14	4	1,5
				A	●	0,2		45	–			
				B	–	0,2		45	–			
		4	5	C	–	0,3	35	50	–	14	4	1,5
				C	●	0,3		50	–			
				D	–	0,3		50	–			
	RGT-VTE-015.05 RGT-STE-015.05	5	5	A	–	0,2	34	35	–	14	4	1,5
				A	●	0,2		45	–			
				B	–	0,2		45	–			
		5	5	C	–	0,3	35	50	–	14	4	1,5
				C	●	0,3		50	–			
				D	–	0,3		50	–			
RGT-VTE-015.06 RGT-STE-015.06	6	5	A	–	0,2	34	35	–	14	4	1,5	
			A	●	0,2		45	–				
			B	–	0,2		45	–				
	6	5	C	–	0,3	35	50	–	14	4	1,5	
			C	●	0,3		50	–				
			D	–	0,3		50	–				

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

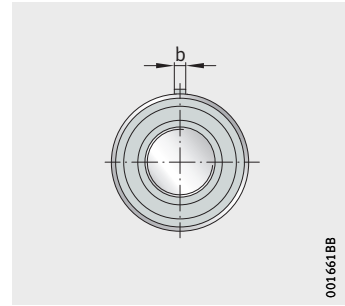


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
4×4×14	15 700	22 400	48,6	6	0,80	0,75	5 500	0,02
	15 700	22 400	48,6					
	25 400	48 600	69,6					
4×4×14	20 500	34 500	59,1	6	0,80	0,75	5 500	0,02
	20 500	34 500	59,1					
	29 900	62 300	78,6					
4×4×14	17 700	21 800	30,0	7	0,86	0,83	5 500	0,02
	17 700	21 800	30,0					
	29 400	48 900	43,8					
4×4×14	23 200	33 800	36,7	7	0,86	0,83	5 500	0,02
	23 200	33 800	36,7					
	34 600	62 600	49,5					
4×4×14	19 000	22 900	26,4	9	0,86	0,84	5 500	0,02
	19 000	22 900	26,4					
	30 800	49 100	37,8					
4×4×14	25 000	35 500	32,3	9	0,86	0,84	5 500	0,02
	25 000	35 500	32,3					
	36 400	63 300	42,9					
4×4×14	18 700	21 200	22,5	10	0,86	0,84	5 500	0,02
	18 700	21 200	22,5					
	31 900	49 200	33,5					
4×4×14	24 700	33 100	27,6	10	0,86	0,84	5 500	0,02
	24 700	33 100	27,6					
	37 500	62 800	37,8					

Roller screw drives

Cylindrical nut, single-piece
Standard design



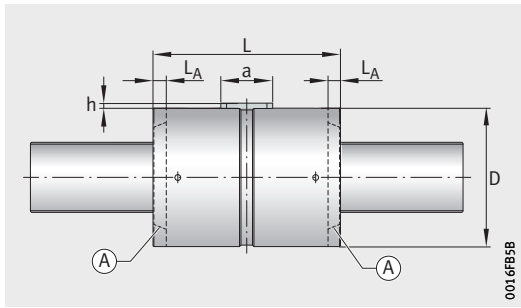
RGT-VTE, RGT-STE

Dimension table (continued) - Dimensions in mm

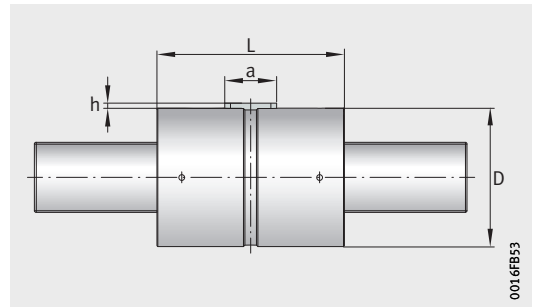
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
15	RGT-VTE-015.08 RGT-STE-015.08	8	5	A	–	0,2	34	35	–	14	4	1,5
				A	●	0,2		45	–			
				B	–	0,2		45	–			
		8	5	C	–	0,3	35	50	–	14	4	1,5
				C	●	0,3		50	–			
				D	–	0,3		50	–			
	RGT-VTE-015.10 RGT-STE-015.10	10	5	A	–	0,2	34	35	–	14	4	1,5
				A	●	0,2		45	–			
				B	–	0,2		45	–			
		10	5	C	–	0,3	35	50	–	14	4	1,5
				C	●	0,3		50	–			
				D	–	0,3		50	–			

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

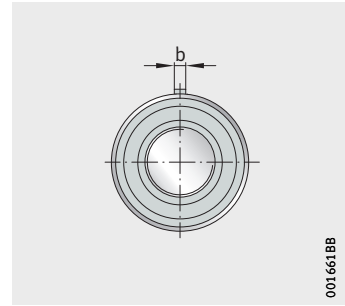


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
4×4×14	19 200	20 500	18,2	12	0,85	0,82	5 500	0,02
	19 200	20 500	18,2					
	31 600	45 100	26,4					
4×4×14	25 500	32 300	22,5	12	0,85	0,82	5 500	0,02
	25 500	32 300	22,5					
	37 600	58 500	30,0					
4×4×14	18 900	19 000	15,0	14	0,82	0,78	5 500	0,02
	18 900	19 000	15,0					
	32 300	44 300	22,5					
4×4×14	27 000	33 700	19,6	14	0,82	0,78	5 500	0,02
	27 000	33 700	19,6					
	40 100	61 100	26,4					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

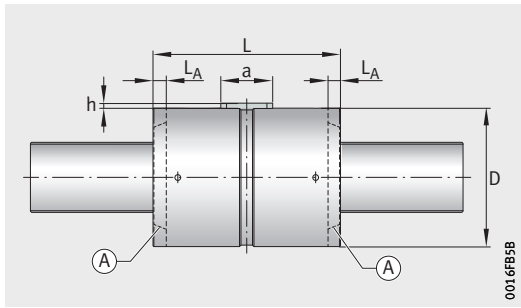
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Dimension table (continued) · Dimensions in mm

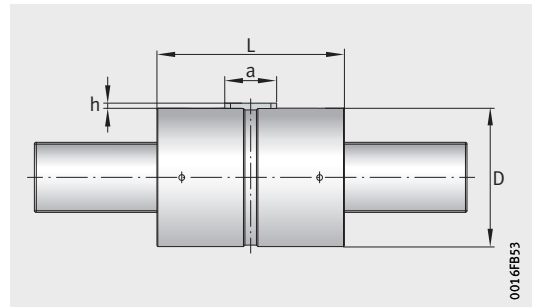
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
20	RGT-VTE-020.02 RGT-STE-020.02	2	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			
	RGT-VTE-020.04 RGT-STE-020.04	4	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			
	RGT-VTE-020.05 RGT-STE-020.05	5	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			
	RGT-VTE-020.06 RGT-STE-020.06	6	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			
	RGT-VTE-020.10 RGT-STE-020.10	10	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			
	RGT-VTE-020.12 RGT-STE-020.12	12	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			
	RGT-VTE-020.20 RGT-STE-020.20	20	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

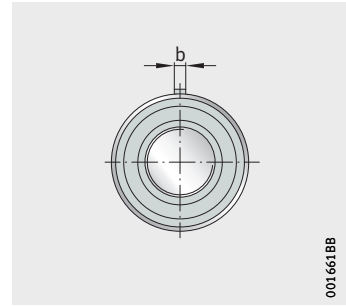


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
4×4×18	32 300	66 400	78,3	18	0,76	0,69	5 200	0,02
	32 300	66 400	78,3					
	42 700	102 700	96,7					
4×4×18	37 200	65 400	48,8	20	0,84	0,81	5 200	0,02
	37 200	65 400	48,8					
	49 800	103 100	60,9					
4×4×18	39 800	67 700	42,7	24	0,85	0,83	5 200	0,02
	39 800	67 700	42,7					
	52 500	104 000	52,7					
4×4×18	40 600	65 800	37,3	26	0,86	0,84	5 200	0,02
	40 600	65 800	37,3					
	53 300	100 500	45,8					
4×4×18	44 400	65 200	26,2	35	0,85	0,83	5 200	0,04
	44 400	65 200	26,2					
	59 100	101 200	32,6					
4×4×18	46 500	67 000	23,5	40	0,83	0,80	5 200	0,04
	46 500	67 000	23,5					
	61 100	101 600	28,9					
4×4×18	46 000	60 200	15,7	50	0,67	0,50	5 200	0,07
	46 000	60 200	15,7					
	65 700	103 000	20,5					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

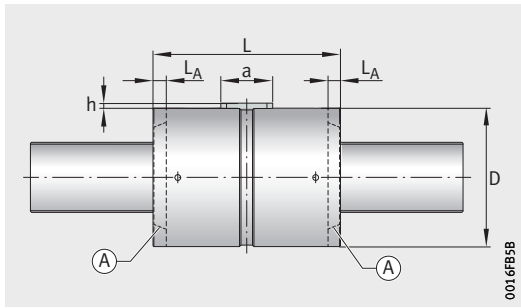
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Dimension table (continued) · Dimensions in mm

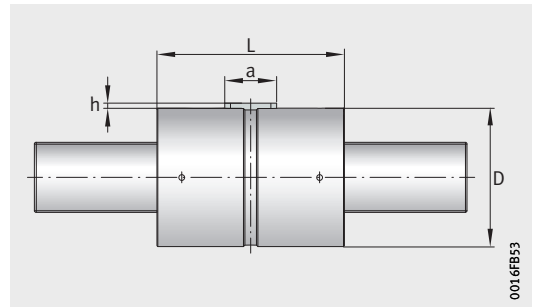
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
21	RGT-VTE-021.02 RGT-STE-021.02	2	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			
	RGT-VTE-021.04 RGT-STE-021.04	4	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			
	RGT-VTE-021.05 RGT-STE-021.05	5	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			
	RGT-VTE-021.06 RGT-STE-021.06	6	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			
	RGT-VTE-021.10 RGT-STE-021.10	10	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			
	RGT-VTE-021.12 RGT-STE-021.12	12	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			
	RGT-VTE-021.20 RGT-STE-021.20	20	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

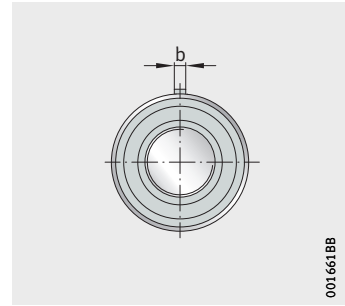


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
5×5×20	43 600	90 200	93,3	20	0,75	0,67	5 200	0,02
	56 800	137 600	114,4					
5×5×20	51 600	90 700	58,8	22	0,83	0,80	5 200	0,02
	66 500	136 100	71,6					
5×5×20	54 500	91 000	50,7	25	0,85	0,82	5 200	0,02
	70 800	138 300	62,1					
5×5×20	56 200	89 400	44,4	30	0,86	0,83	5 200	0,02
	72 600	134 700	54,2					
5×5×20	59 900	83 200	30,4	38	0,86	0,83	5 200	0,04
	79 200	129 900	37,7					
5×5×20	63 000	85 500	27,2	45	0,84	0,81	5 200	0,04
	82 300	130 300	33,4					
5×5×20	55 500	62 800	15,9	60	0,71	0,59	5 200	0,07
	71 100	92 600	19,2					

Roller screw drives

Cylindrical nut, single-piece
Standard design



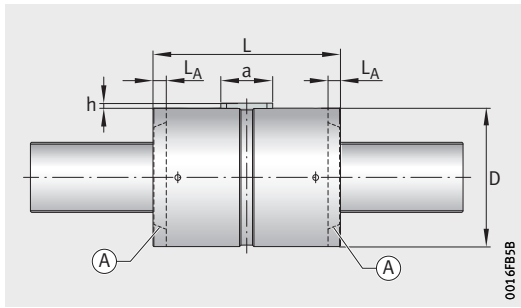
RGT-VTE, RGT-STE

Dimension table (continued) - Dimensions in mm

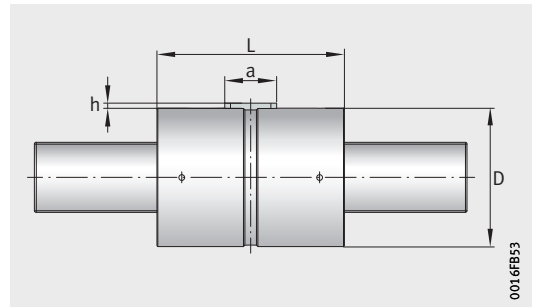
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
24	RGT-VTE-024.02 RGT-STE-024.02	2	5	A	–	0,4	48	55	–	18	4	1,5
				A	●	0,6		65	–			
				B	–	0,6		65	–			
	RGT-VTE-024.04 RGT-STE-024.04	4	5	A	–	0,4	48	55	–	18	4	1,5
				A	●	0,6		65	–			
				B	–	0,6		65	–			
	RGT-VTE-024.05 RGT-STE-024.05	5	5	A	–	0,4	48	55	–	18	4	1,5
				A	●	0,6		65	–			
				B	–	0,6		65	–			
	RGT-VTE-024.06 RGT-STE-024.06	6	5	A	–	0,4	48	55	–	18	4	1,5
				A	●	0,6		65	–			
				B	–	0,6		65	–			
	RGT-VTE-024.12 RGT-STE-024.12	12	5	A	–	0,4	48	55	–	18	4	1,5
				A	●	0,6		65	–			
				B	–	0,6		65	–			
	RGT-VTE-024.20 RGT-STE-024.20	20	5	A	–	0,4	48	55	–	18	4	1,5
				A	●	0,6		65	–			
				B	–	0,6		65	–			

Ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

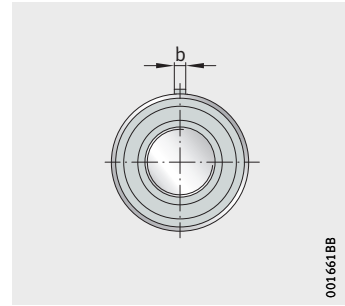


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
4×4×18	42 000	77 400	86,4	24	0,73	0,62	5 000	0,02
	42 000	77 400	86,4					
	60 600	143 200	114,9					
4×4×18	49 600	78 100	54,5	28	0,82	0,78	5 000	0,02
	49 600	78 100	54,5					
	71 700	143 800	72,4					
4×4×18	52 400	78 400	46,9	32	0,84	0,81	5 000	0,02
	52 400	78 400	46,9					
	76 000	145 200	62,6					
4×4×18	54 700	78 700	41,6	50	0,85	0,83	5 000	0,02
	54 700	78 700	41,6					
	77 500	140 100	54,5					
4×4×18	58 500	69 100	24,4	70	0,85	0,83	5 000	0,04
	58 500	69 100	24,4					
	90 700	141 800	34,3					
4×4×18	60 300	64 000	16,5	85	0,77	0,69	5 000	0,07
	60 300	64 000	16,5					
	90 300	122 900	22,6					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

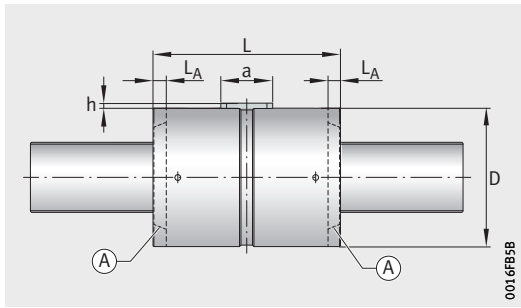
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Dimension table (continued) · Dimensions in mm

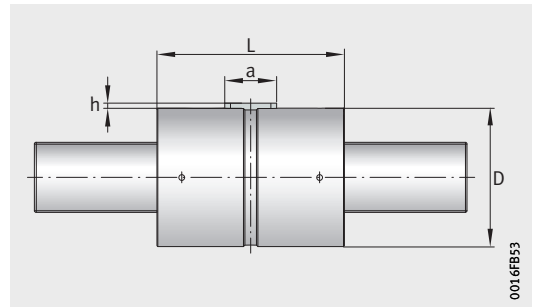
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
25	RGT-VTE-025.02 RGT-STE-025.02	2	5	A	●	0,7	53	78	–	25	6	2,5
				B	–	0,8		78	–			
	RGT-VTE-025.04 RGT-STE-025.04	4	5	A	●	0,7	53	78	–	25	6	2,5
				B	–	0,8		78	–			
	RGT-VTE-025.05 RGT-STE-025.05	5	5	A	●	0,7	53	78	–	25	6	2,5
				B	–	0,8		78	–			
	RGT-VTE-025.06 RGT-STE-025.06	6	5	A	●	0,7	53	78	–	25	6	2,5
				B	–	0,8		78	–			
	RGT-VTE-025.12 RGT-STE-025.12	12	5	A	●	0,7	53	78	–	25	6	2,5
				B	–	0,8		78	–			
	RGT-VTE-025.20 RGT-STE-025.20	20	5	A	●	0,7	53	78	–	25	6	2,5
				B	–	0,8		78	–			

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

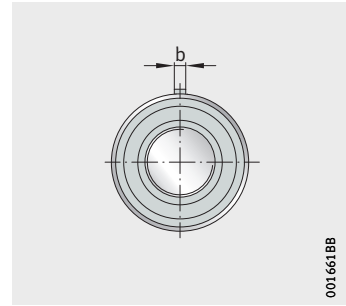


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
6×6×25	60 600	143 200	114,9	26	0,73	0,62	5 000	0,02
	74 500	198 600	134,9					
6×6×25	71 700	143 800	72,4	38	0,82	0,78	5 000	0,02
	87 500	196 900	84,5					
6×6×25	76 000	145 200	62,6	43	0,84	0,81	5 000	0,02
	93 400	200 600	73,5					
6×6×25	77 500	140 100	54,5	58	0,85	0,83	5 000	0,02
	97 200	199 700	64,9					
6×6×25	90 700	141 800	34,3	75	0,85	0,83	5 000	0,04
	111 200	194 600	40,2					
6×6×25	79 000	100 500	19,7	90	0,77	0,69	5 000	0,07
	153 600	103 900	24,4					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

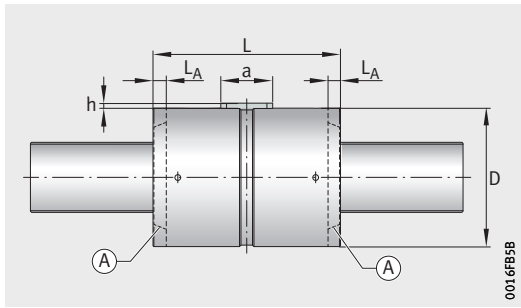
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Dimension table (continued) · Dimensions in mm

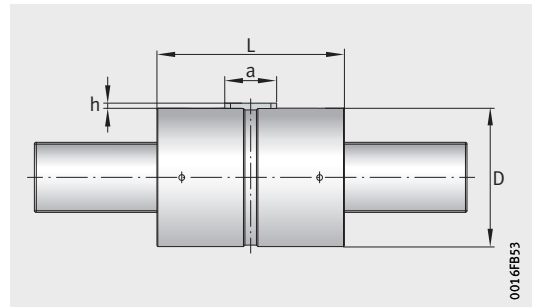
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
27	RGT-VTE-027.02 RGT-STE-027.02	2	5	A	–	0,6	55	55	–	18	4	1,5
				A	●	0,6		69	–			
				B	–	0,8		69	–			
		2	5	C	–	0,8	55	79	–	18	4	1,5
				C	●	0,8		79	–			
				D	–	0,8		79	–			
	RGT-VTE-027.04 RGT-STE-027.04	4	5	A	–	0,6	55	55	–	18	4	1,5
				A	●	0,6		69	–			
				B	–	0,8		69	–			
		4	5	C	–	0,8	55	79	–	18	4	1,5
				C	●	0,8		79	–			
				D	–	0,8		79	–			
RGT-VTE-027.05 RGT-STE-027.05	5	5	A	–	0,6	55	55	–	18	4	1,5	
			A	●	0,6		69	–				
			B	–	0,8		69	–				
	5	5	C	–	0,8	55	79	–	18	4	1,5	
			C	●	0,8		79	–				
			D	–	0,8		79	–				
RGT-VTE-027.06 RGT-STE-027.06	6	5	A	–	0,6	55	55	–	18	4	1,5	
			A	●	0,6		69	–				
			B	–	0,8		69	–				
	6	5	C	–	0,8	55	79	–	18	4	1,5	
			C	●	0,8		79	–				
			D	–	0,8		79	–				

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

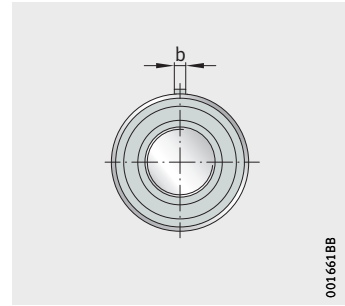


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
4×4×18	45 400	75 900	85,5	28	0,71	0,58	4 900	0,02
	45 400	75 900	85,5					
	68 800	153 500	117,6					
4×4×18	62 300	130 300	108,9	28	0,71	0,58	4 900	0,02
	62 300	130 300	108,9					
	84 800	214 400	138,0					
4×4×18	52 500	74 500	53,2	40	0,81	0,76	4 900	0,02
	52 500	74 500	53,2					
	80 900	154 200	74,1					
4×4×18	73 200	131 000	68,6	40	0,81	0,76	4 900	0,02
	73 200	131 000	68,6					
	99 000	212 500	86,5					
4×4×18	54 400	72 900	45,3	45	0,83	0,80	4 900	0,02
	54 400	72 900	45,3					
	83 600	149 900	62,9					
4×4×18	75 400	126 700	58,2	45	0,83	0,80	4 900	0,02
	75 400	126 700	58,2					
	103 400	210 400	74,1					
4×4×18	58 600	77 300	41,1	60	0,85	0,82	4 900	0,02
	58 600	77 300	41,1					
	87 100	150 200	55,7					
4×4×18	76 900	122 500	50,6	60	0,85	0,82	4 900	0,02
	76 900	122 500	50,6					
	107 000	208 200	65,2					

Roller screw drives

Cylindrical nut, single-piece
Standard design



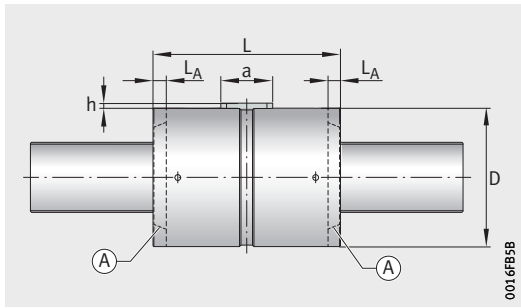
RGT-VTE, RGT-STE

Dimension table (continued) · Dimensions in mm

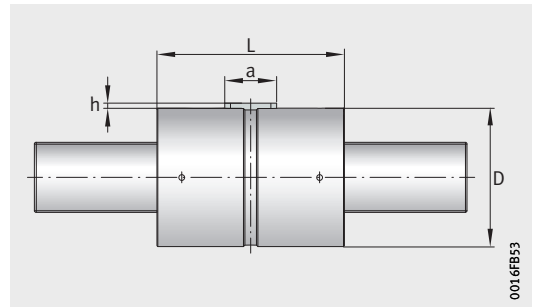
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
27	RGT-VTE-027.08 RGT-STE-027.08	8	5	A	–	0,6	55	55	–	18	4	1,5
				A	●	0,6		69	–			
				B	–	0,8		69	–			
		8	5	C	–	0,8	55	79	–	18	4	1,5
				C	●	0,8		79	–			
				D	–	0,8		79	–			
	RGT-VTE-027.15 RGT-STE-027.15	15	5	A	–	0,6	55	55	–	18	4	1,5
				A	●	0,6		69	–			
				B	–	0,8		69	–			
		15	5	C	–	0,8	55	79	–	18	4	1,5
				C	●	0,8		79	–			
				D	–	0,8		79	–			
RGT-VTE-027.25 RGT-STE-027.25	25	5	B	–	0,8	55	69	–	18	4	1,5	
	25	5	C	–	0,8	55	79	–	18	4	1,5	
			C	●	0,8		79	–				
			D	–	0,8		79	–				

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

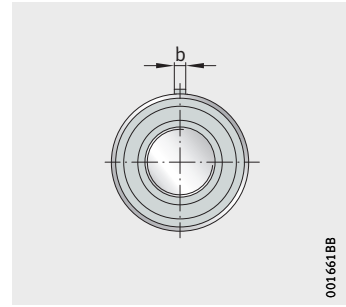


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
4×4×18	61 500	75 900	33,5	75	0,86	0,84	4 900	0,02
	61 500	75 900	33,5					
	94 800	155 600	46,7					
4×4×18	83 900	127 800	42,5	75	0,86	0,84	4 900	0,02
	83 900	127 800	42,5					
	116 000	213 800	54,5					
4×4×18	66 500	71 200	21,1	90	0,85	0,82	4 900	0,04
	66 500	71 200	21,1					
	106 200	153 200	30,2					
4×4×18	90 600	118 800	26,8	90	0,85	0,82	4 900	0,04
	90 600	118 800	26,8					
	129 000	207 400	35,1					
4×4×18	86 300	99 800	16,7	100	0,72	0,62	4 900	0,07
	86 300	99 800	16,7					
	110 900	147 300	20,2					

Roller screw drives

Cylindrical nut, single-piece
Standard design



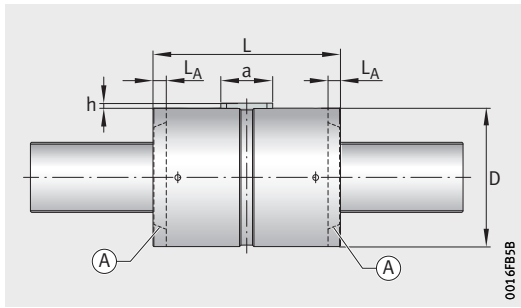
RGT-VTE, RGT-STE

Dimension table (continued) · Dimensions in mm

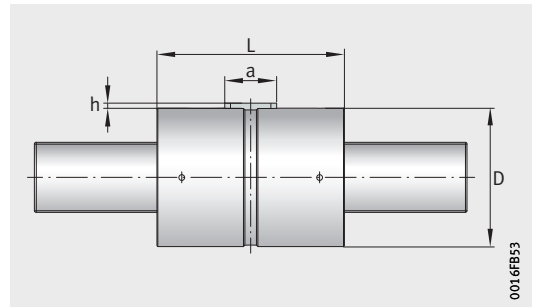
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
30	RGT-VTE-030.02 RGT-STE-030.02	2	5	A	–	0,8	62	55	–	22	5	2
				A	●	0,9		69	–			
				B	–	1,1		69	–			
		2	5	C	–	1,3	64	85	–	32	6	2,5
				C	●	1,3		85	–			
				D	–	1,3		85	–			
	RGT-VTE-030.04 RGT-STE-030.04	4	5	A	–	0,8	62	55	–	22	5	2
				A	●	0,9		69	–			
				B	–	1,1		69	–			
		4	5	C	–	1,3	64	85	–	32	6	2,5
				C	●	1,3		85	–			
				D	–	1,3		85	–			
	RGT-VTE-030.05 RGT-STE-030.05	5	5	A	–	0,8	62	55	–	22	5	2
				A	●	0,9		69	–			
				B	–	1,1		69	–			
		5	5	C	–	1,3	64	85	–	32	6	2,5
				C	●	1,3		85	–			
				D	–	1,3		85	–			
RGT-VTE-030.06 RGT-STE-030.06	6	5	A	–	0,8	62	55	–	22	5	2	
			A	●	0,9		69	–				
			B	–	1,1		69	–				
	6	5	C	–	1,3	64	85	–	32	6	2,5	
			C	●	1,3		85	–				
			D	–	1,3		85	–				

Ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

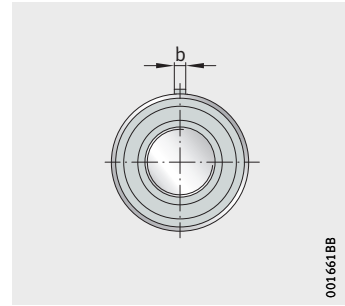


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
5×5×22	49 300	75 200	85,1	30	0,69	0,54	4 700	0,02
	49 300	75 200	85,1					
	76 000	157 900	118,1					
6×6×32	79 700	170 700	122,5	30	0,69	0,54	4 700	0,02
	79 700	170 700	122,5					
	102 900	256 300	148,6					
5×5×22	56 600	73 900	52,9	45	0,80	0,75	4 700	0,02
	56 600	73 900	52,9					
	88 700	158 700	74,4					
6×6×32	92 200	168 900	76,6	45	0,80	0,75	4 700	0,02
	92 200	168 900	76,6					
	119 300	254 300	93,1					
5×5×22	60 400	76 400	46,2	55	0,82	0,78	4 700	0,02
	60 400	76 400	46,2					
	93 200	159 100	64,1					
6×6×32	97 800	171 800	66,5	55	0,82	0,78	4 700	0,02
	97 800	171 800	66,5					
	126 700	258 800	80,9					
5×5×22	61 900	74 600	40,4	70	0,84	0,81	4 700	0,02
	61 900	74 600	40,4					
	97 100	159 400	56,8					
6×6×32	99 900	167 100	58,0	70	0,84	0,81	4 700	0,02
	99 900	167 100	58,0					
	130 500	255 000	71,1					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

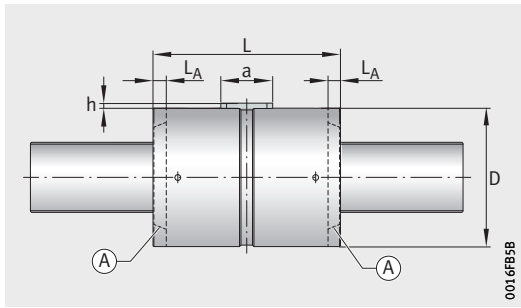
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Dimension table (continued) · Dimensions in mm

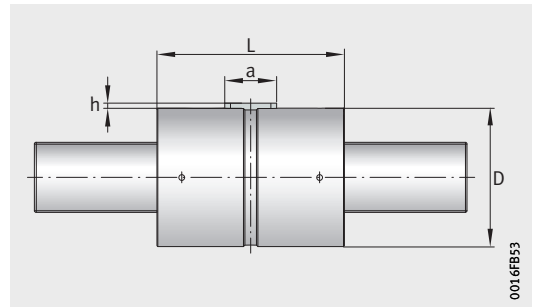
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	④	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
30	RGT-VTE-030.08 RGT-STE-030.08	8	5	A	–	0,8	62	55	–	22	5	2
				A	●	0,9		69	–			
				B	–	1,1		69	–			
		8	5	C	–	1,3	64	85	–	32	6	2,5
				C	●	1,3		85	–			
				D	–	1,3		85	–			
	RGT-VTE-030.10 RGT-STE-030.10	10	5	A	–	0,8	62	55	–	22	5	2
				A	●	0,9		69	–			
				B	–	1,1		69	–			
		10	5	C	–	1,3	64	85	–	32	6	2,5
				C	●	1,3		85	–			
				D	–	1,3		85	–			
RGT-VTE-030.20 RGT-STE-030.20	20	5	A	–	0,8	62	55	–	22	5	2	
			A	●	0,9		69	–				
			B	–	1,1		69	–				
	20	5	C	–	1,3	64	85	–	32	6	2,5	
			C	●	1,3		85	–				
			D	–	1,3		85	–				

④ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

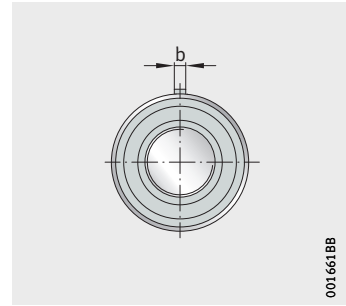


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
5×5×22	63 800	71 100	32,5	80	0,86	0,83	4 700	0,02
	63 800	71 100	32,5					
	101 300	155 200	46,2					
6×6×32	105 400	165 300	47,6	80	0,86	0,83	4 700	0,02
	105 400	165 300	47,6					
	137 000	250 200	58,0					
5×5×22	64 600	67 700	27,3	100	0,86	0,84	4 700	0,04
	64 600	67 700	27,3					
	103 000	148 400	38,9					
6×6×32	113 600	173 700	41,9	100	0,86	0,84	4 700	0,04
	113 600	173 700	41,9					
	144 700	253 700	50,3					
5×5×22	73 900	71 100	17,2	140	0,82	0,78	4 700	0,07
	73 900	71 100	17,2					
	123 900	164 600	25,4					
6×6×32	123 900	164 600	25,4	140	0,82	0,78	4 700	0,07
	123 900	164 600	25,4					
	159 600	243 500	30,8					

Roller screw drives

Cylindrical nut, single-piece
Standard design



001661BB

RGT-VTE, RGT-STE

Dimension table (continued) · Dimensions in mm

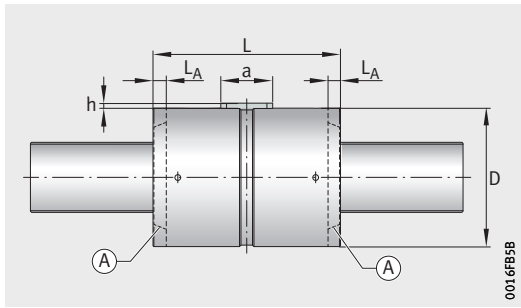
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
33	RGT-VTE-033.05 RGT-STE-033.05	5	5	A	–	1,5	68	80	–	32	5	2
				A	●	1,6		94	–			
36	RGT-VTE-036.02 RGT-STE-036.02	2	5	A	–	1,3	75	68	–	22	5	2
				A	●	1,3		82	–			
				B	–	1,6		82	–			
	RGT-VTE-036.04 RGT-STE-036.04	4	5	A	–	1,3	75	68	–	22	5	2
				A	●	1,3		82	–			
				B	–	1,6		82	–			
	RGT-VTE-036.05 RGT-STE-036.05	5	5	A	–	1,3	75	68	–	22	5	2
				A	●	1,3		82	–			
				B	–	1,6		82	–			
	RGT-VTE-036.06 RGT-STE-036.06	6	5	A	–	1,3	75	68	–	22	5	2
				A	●	1,3		82	–			
				B	–	1,6		82	–			
RGT-VTE-036.08 RGT-STE-036.08	8	5	A	–	1,3	75	68	–	22	5	2	
			A	●	1,3		82	–				
			B	–	1,6		82	–				
RGT-VTE-036.10 RGT-STE-036.10	10	5	A	–	1,3	75	68	–	22	5	2	
			A	●	1,3		82	–				
			B	–	1,6		82	–				
RGT-VTE-036.20 RGT-STE-036.20	20	5	A	–	1,3	75	68	–	22	5	2	
			A	●	1,3		82	–				
			B	–	1,6		82	–				
RGT-VTE-036.25 RGT-STE-036.25	25	5	A	–	1,3	75	68	–	22	5	2	
			A	●	1,3		82	–				
			B	–	1,6		82	–				
RGT-VTE-036.30 RGT-STE-036.30	30	5	A	–	1,3	75	68	–	22	5	2	
			A	●	1,3		82	–				
			B	–	1,6		82	–				

⊗ Wipers: ● with wiper.

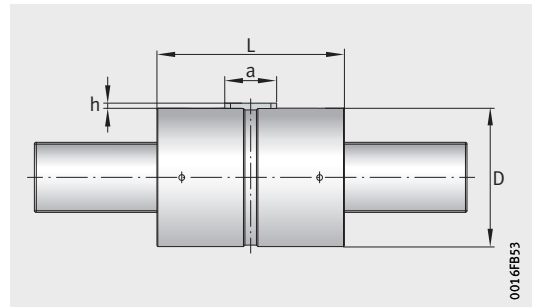
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTE.

3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

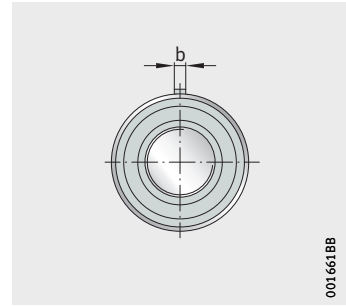


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
5×5×22	129 400	289 500	84,0	60	0,81	0,77	4 500	0,02
	129 400	289 500	84,0					
5×5×22	70 400	131 900	107,9	45	0,65	0,46	4 400	0,02
	70 400	131 900	107,9					
	98 200	233 300	139,2					
5×5×22	81 800	130 100	67,3	60	0,77	0,71	4 400	0,02
	81 800	130 100	67,3					
	115 500	234 200	87,7					
5×5×22	87 200	133 300	58,6	70	0,80	0,75	4 400	0,02
	87 200	133 300	58,6					
	121 600	234 700	75,6					
5×5×22	90 900	133 700	51,9	80	0,82	0,78	4 400	0,02
	90 900	133 700	51,9					
	124 900	229 100	66,1					
5×5×22	93 800	126 600	41,7	100	0,85	0,82	4 400	0,02
	93 800	126 600	41,7					
	133 400	230 000	54,6					
5×5×22	96 200	122 200	35,2	120	0,86	0,83	4 400	0,04
	96 200	122 200	35,2					
	137 000	221 800	46,2					
5×5×22	111 600	126 500	22,2	160	0,85	0,82	4 400	0,07
	111 600	126 500	22,2					
	152 100	211 200	28,1					
5×5×22	105 300	109 100	17,7	180	0,81	0,77	4 400	0,07
	105 300	109 100	17,7					
	158 500	213 400	24,3					
5×5×22	127 100	144 000	17,7	200	0,77	0,69	4 400	0,07
	127 100	144 000	17,7					
	170 300	230 400	22,2					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

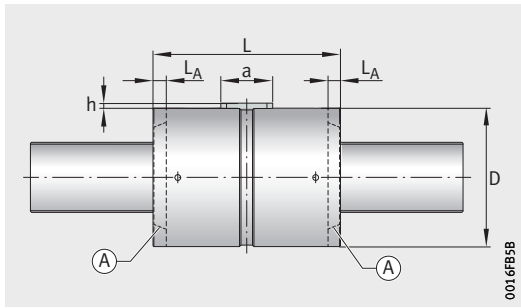
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Dimension table (continued) · Dimensions in mm

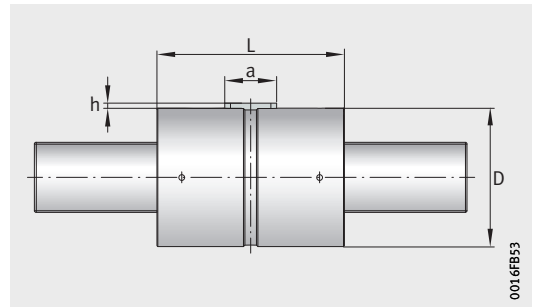
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L _A	a	b h9	h
39	RGT-VTE-039.02 RGT-STE-039.02	2	5	A	–	1,6	80	72	–	25	5	2
				A	●	1,7		90	–			
				B	–	1,8		90	–			
		2	5	C	–	1,9	80	100	–	40	8	3
				C	●	2,0		100	–			
				D	–	2,2		100	–			
	RGT-VTE-039.04 RGT-STE-039.04	4	5	A	–	1,6	80	72	–	25	5	2
				A	●	1,7		90	–			
				B	–	1,8		90	–			
		4	5	C	–	1,9	80	100	–	40	8	3
				C	●	2,0		100	–			
				D	–	2,2		100	–			
	RGT-VTE-039.05 RGT-STE-039.05	5	5	A	–	1,6	80	72	–	25	5	2
				A	●	1,7		90	–			
				B	–	1,8		90	–			
		5	5	C	–	1,9	80	100	–	40	8	3
				C	●	2,0		100	–			
				D	–	2,2		100	–			
RGT-VTE-039.10 RGT-STE-039.10	10	5	A	–	1,6	80	72	–	25	5	2	
			A	●	1,7		90	–				
			B	–	1,8		90	–				
	10	5	C	–	1,9	80	100	–	40	8	3	
			C	●	2,0		100	–				
			D	–	2,2		100	–				

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

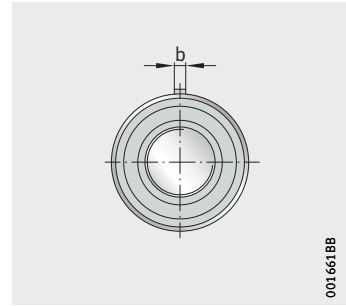


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
5×5×25	84 000	156 900	116,0	80	0,63	0,42	4 200	0,02
	84 000	156 900	116,0					
	123 500	299 900	155,3					
8×7×40	114 900	266 500	147,1	80	0,63	0,42	4 200	0,02
	114 900	266 500	147,1					
	144 600	386 300	175,1					
5×5×25	98 100	157 900	73,1	95	0,76	0,69	4 200	0,02
	98 100	157 900	73,1					
	143 200	297 600	97,3					
8×7×40	133 200	264 300	92,1	95	0,76	0,69	4 200	0,02
	133 200	264 300	92,1					
	168 900	387 200	110,3					
5×5×25	100 900	152 600	62,0	110	0,79	0,74	4 200	0,02
	100 900	152 600	62,0					
	149 500	294 700	83,4					
8×7×40	138 900	261 500	78,9	110	0,79	0,74	4 200	0,02
	138 900	261 500	78,9					
	175 500	380 700	94,2					
5×5×25	117 600	155 000	39,0	170	0,85	0,83	4 200	0,04
	117 600	155 000	39,0					
	174 200	297 200	52,6					
8×7×40	161 800	264 000	49,7	170	0,85	0,83	4 200	0,04
	161 800	264 000	49,7					
	204 500	383 100	59,4					

Roller screw drives

Cylindrical nut, single-piece
Standard design



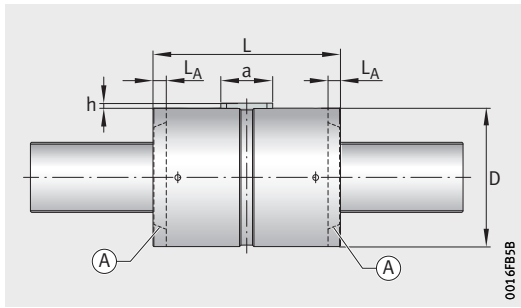
RGT-VTE, RGT-STE

Dimension table (continued) · Dimensions in mm

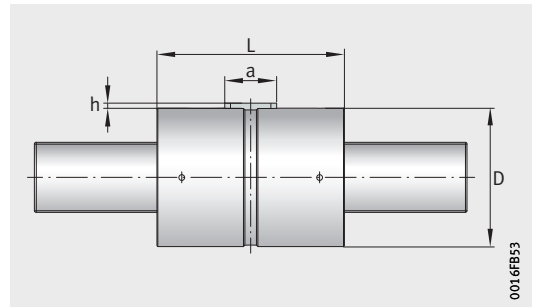
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
39	RGT-VTE-039.20 RGT-STE-039.20	20	5	A	–	1,6	80	72	–	25	5	2
				A	●	1,7		90	–			
				B	–	1,8		90	–			
		20	5	C	–	1,9	80	100	–	40	8	3
				C	●	2,0		100	–			
				D	–	2,2		100	–			
	RGT-VTE-039.30 RGT-STE-039.30	30	5	A	–	1,6	80	72	–	25	5	2
				A	●	1,7		90	–			
				B	–	1,8		90	–			
		30	5	C	–	1,9	80	100	–	40	8	3
				C	●	2,0		100	–			
				D	–	2,2		100	–			

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

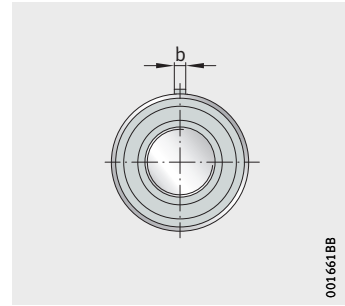


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
5×5×25	135 700	159 800	24,6	240	0,85	0,83	4 200	0,07
	135 700	159 800	24,6					
	193 800	285 300	32,2					
8×7×40	179 500	252 500	30,4	240	0,85	0,83	4 200	0,07
	179 500	252 500	30,4					
	235 900	387 800	37,4					
5×5×25	136 800	149 800	18,0	300	0,79	0,74	4 200	0,07
	136 800	149 800	18,0					
	206 800	289 900	24,6					
8×7×40	183 900	241 000	22,5	300	0,79	0,74	4 200	0,07
	183 900	241 000	22,5					
	229 400	340 400	26,6					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

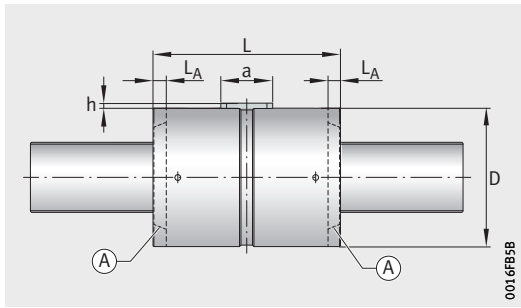
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Dimension table (continued) · Dimensions in mm

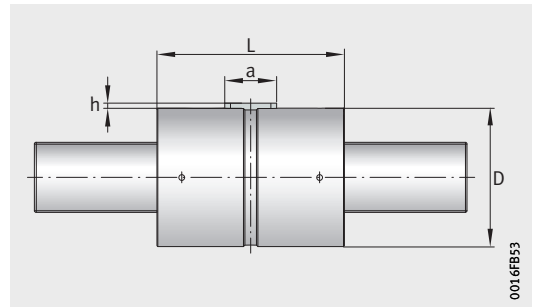
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
44	RGT-VTE-044.12 RGT-STE-044.12	12	6	A	●	2,1	82	90	–	32	6	2,5
				B	–	2,5		90	–			
	RGT-VTE-044.24 RGT-STE-044.24	24	6	A	●	2,1	82	90	–	32	6	2,5
				B	–	2,5		90	–			
	RGT-VTE-044.30 RGT-STE-044.30	30	6	A	●	2,1	82	90	–	32	6	2,5
				B	–	2,5		90	–			
	RGT-VTE-044.36 RGT-STE-044.36	36	6	A	●	2,1	82	90	–	32	6	2,5
				B	–	2,5		90	–			
	RGT-VTE-044.42 RGT-STE-044.42	42	6	A	●	2,1	82	90	–	32	6	2,5
				B	–	2,5		90	–			

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

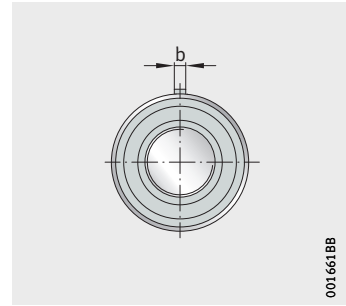


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
6×6×32	132 900	207 000	46,0	180	0,86	0,83	4 100	0,04
	164 900	292 800	54,1					
6×6×32	138 000	179 300	26,8	280	0,85	0,82	4 100	0,07
	182 600	280 100	33,1					
6×6×32	155 300	206 000	24,5	320	0,82	0,78	4 100	0,07
	193 700	291 200	29,0					
6×6×32	139 400	168 100	19,6	360	0,77	0,71	4 100	0,07
	187 500	267 400	24,5					
6×6×32	162 500	210 500	19,6	400	0,71	0,59	4 100	0,07
	190 700	269 600	22,1					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

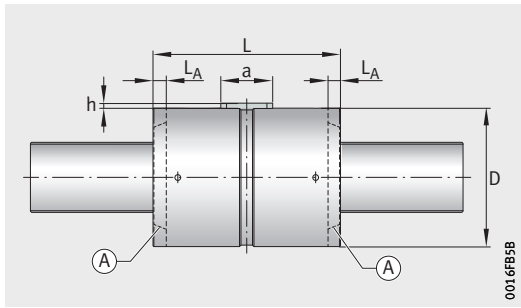
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Dimension table (continued) - Dimensions in mm

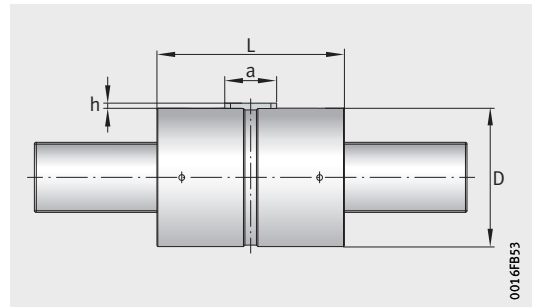
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	④	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
48	RGT-VTE-048.05 RGT-STE-048.05	5	5	A	-	3,2	96	95	-	40	6	2,5
				A	●	3,5		113	-			
				B	-	3,7		113	-			
		5	5	C	-	4,0	100	127	-	45	8	3
				C	●	4,2		127	-			
				D	-	4,3		127	-			
	RGT-VTE-048.10 RGT-STE-048.10	10	5	A	-	3,2	96	95	-	40	6	2,5
				A	●	3,5		113	-			
				B	-	3,7		113	-			
		10	5	C	-	4,0	100	127	-	45	8	3
				C	●	4,2		127	-			
				D	-	4,3		127	-			
RGT-VTE-048.20 RGT-STE-048.20	20	5	A	-	3,2	96	95	-	40	6	2,5	
			A	●	3,5		113	-				
			B	-	3,7		113	-				
	20	5	C	-	4,0	100	127	-	45	8	3	
			C	●	4,2		127	-				
			D	-	4,3		127	-				

④ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

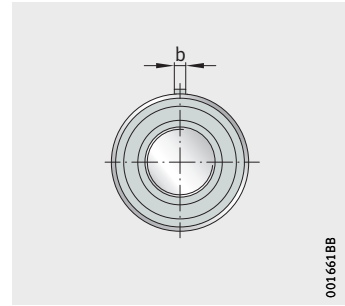


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
6×6×40	165 300	349 300	89,8	180	0,76	0,69	3 800	0,02
	165 300	349 300	89,8					
	213 400	534 600	109,5					
8×7×45	202 900	492 200	105,3	180	0,76	0,69	3 800	0,02
	202 900	492 200	105,3					
	249 600	687 200	123,7					
6×6×40	188 900	332 800	55,1	200	0,84	0,81	3 800	0,02
	188 900	332 800	55,1					
	246 100	516 400	67,7					
8×7×45	233 600	474 300	65,0	200	0,84	0,81	3 800	0,02
	233 600	474 300	65,0					
	289 100	668 000	76,7					
6×6×40	214 300	319 500	33,8	280	0,86	0,84	3 800	0,07
	214 300	319 500	33,8					
	289 200	522 300	42,6					
8×7×45	274 500	480 300	40,9	280	0,86	0,84	3 800	0,07
	274 500	480 300	40,9					
	332 500	651 700	47,5					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

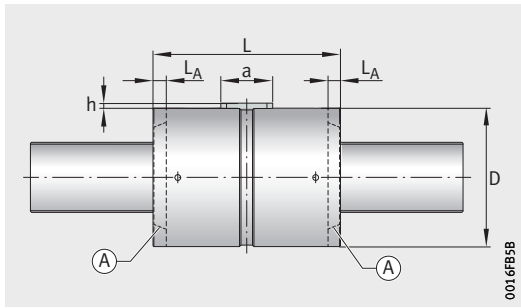
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Dimension table (continued) · Dimensions in mm

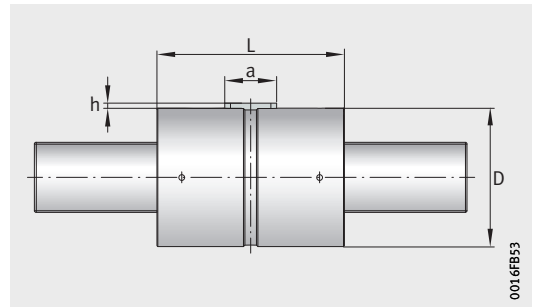
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
48	RGT-VTE-048.30 ⁴⁾ RGT-STE-048.30 ⁴⁾	30	5	A	–	3,2	96	95	–	40	6	2,5
				A	●	3,5		113	–			
				B	–	3,7		113	–			
		30	5	C	–	4,0	100	127	–	45	8	3
				C	●	4,2		127	–			
				D	–	4,3		127	–			
	RGT-VTE-048.40 RGT-STE-048.40	40	5	A	–	3,2	96	95	–	40	6	2,5
				A	●	3,5		113	–			
				B	–	3,7		113	–			
		40	5	C	–	4,0	100	127	–	45	8	3
				C	●	4,2		127	–			
				D	–	4,3		127	–			

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.
- 4) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 108.



With wiper

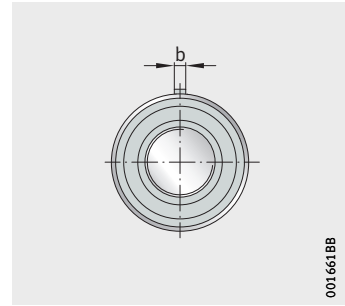


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
6×6×40	222 700	325 300	25,8	340	0,83	0,80	3 800	0,07
	222 700	325 300	25,8					
	292 900	506 900	31,9					
8×7×45	269 800	444 700	29,9	340	0,83	0,80	3 800	0,07
	269 800	444 700	29,9					
	338 100	635 400	35,7					
6×6×40	221 300	330 900	21,3	420	0,77	0,69	3 800	0,07
	221 300	330 900	21,3					
	283 400	491 600	25,8					
8×7×45	283 400	491 600	25,8	420	0,77	0,69	3 800	0,07
	283 400	491 600	25,8					
	343 300	662 700	29,9					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

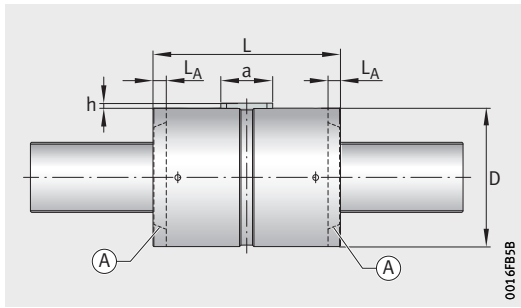
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Dimension table (continued) · Dimensions in mm

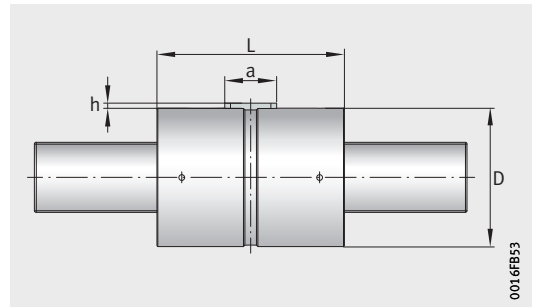
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
48	RGT-VTE-048.06 RGT-STE-048.06	6	6	A	–	3,0	86	94	–	40	6	2,5
	A			●	3,3	86	104	–				
	RGT-VTE-048.12 RGT-STE-048.12	12	6	A	–	3,0	86	94	–	40	6	2,5
	A			●	3,3	86	104	–				
	RGT-VTE-048.18 RGT-STE-048.18	18	6	A	–	3,0	86	94	–	40	6	2,5
	A			●	3,3	86	104	–				
	RGT-VTE-048.30⁴⁾ RGT-STE-048.30⁴⁾	30	6	A	–	3,0	86	94	–	40	6	2,5
	A			●	3,3	86	104	–				

Ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.
- 4) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 106.



With wiper

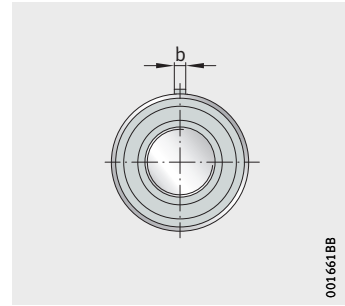


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
6×6×40	147 200	333 900	91,1	200	0,79	0,73	3 800	0,04
	147 200	333 900	91,1					
6×6×40	170 800	327 000	56,6	250	0,85	0,83	3 800	0,07
	170 800	327 000	56,6					
6×6×40	187 600	329 700	43,2	280	0,86	0,84	3 800	0,07
	187 600	329 700	43,2					
6×6×40	197 900	306 600	29,4	380	0,83	0,80	3 800	0,07
	197 900	306 600	29,4					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

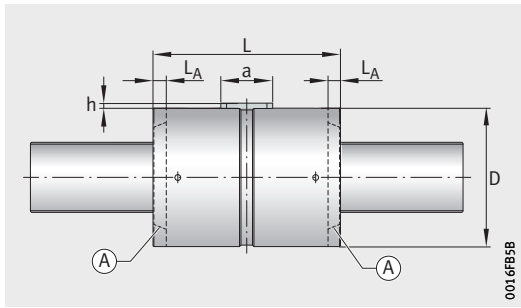
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Dimension table (continued) · Dimensions in mm

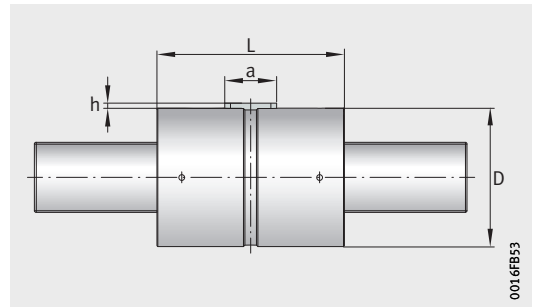
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
56	RGT-VTE-056.12 RGT-STE-056.12	12	6	A	●	4,2	105	112	—	40	8	3
				B	—	4,7		112	—			
	RGT-VTE-056.24 RGT-STE-056.24	24	6	A	●	4,2	105	112	—	40	8	3
				B	—	4,7		112	—			
	RGT-VTE-056.30 RGT-STE-056.30	30	6	A	●	4,2	105	112	—	40	8	3
				B	—	4,7		112	—			
	RGT-VTE-056.36 RGT-STE-056.36	36	6	A	●	4,2	105	112	—	40	8	3
				B	—	4,7		112	—			

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTE.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

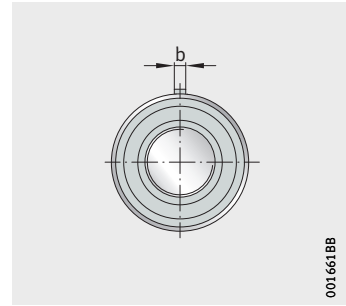


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ³⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
8×7×40	195 300	335 400	56,7	320	0,84	0,81	3 500	0,04
	261 200	534 700	70,6					
8×7×40	217 600	320 800	34,7	400	0,86	0,84	3 500	0,07
	302 500	540 900	44,5					
8×7×40	231 700	334 400	30,3	480	0,85	0,82	3 500	0,07
	320 300	555 400	38,7					
8×7×40	220 900	306 300	25,6	560	0,83	0,79	3 500	0,07
	302 400	501 300	32,5					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

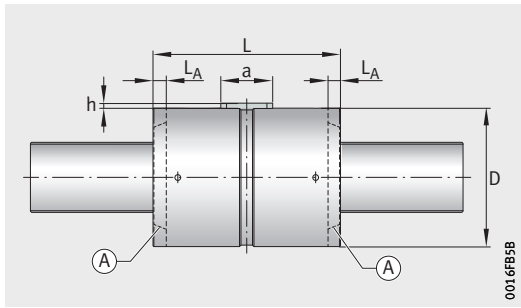
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Dimension table (continued) · Dimensions in mm

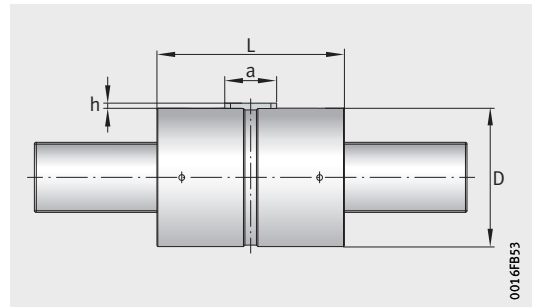
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
63	RGT-VTE-063.05 RGT-STE-063.05	5	5	A	–	5,9	118	115	–	45	8	3
				A	●	6,1	118	133	–			
		5	5	C	–	7,8	122	152	–	45	8	3
				C	●	7,8	122	152	–			
	RGT-VTE-063.10 ³⁾ RGT-STE-063.10 ³⁾	10	5	A	–	5,9	118	115	–	45	8	3
				A	●	6,1	118	133	–			
		10	5	C	–	7,8	122	152	–	45	8	3
				C	●	7,8	122	152	–			
	RGT-VTE-063.15 RGT-STE-063.15	15	5	A	–	5,9	118	115	–	45	8	3
				A	●	6,1	118	133	–			
		15	5	C	–	7,8	122	152	–	45	8	3
				C	●	7,8	122	152	–			
RGT-VTE-063.20 RGT-STE-063.20	20	5	A	–	5,9	118	115	–	45	8	3	
			A	●	6,1	118	133	–				
	20	5	C	–	7,8	122	152	–	45	8	3	
			C	●	7,8	122	152	–				
RGT-VTE-063.30 RGT-STE-063.30	30	5	A	–	5,9	118	115	–	45	8	3	
			A	●	6,1	118	133	–				
	30	5	C	–	7,8	122	152	–	45	8	3	
			C	●	7,8	122	152	–				

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STE.
- 3) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 116.



With wiper

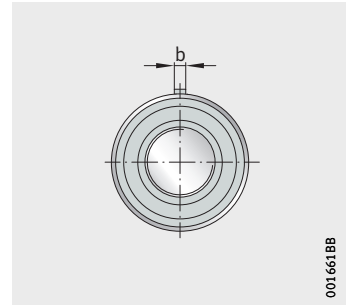


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
8×7×45	248 700	508 400	105,1	-	0,72	0,61	3 000	0,02
	248 700	508 400	105,1					
10×8×45	315 700	756 100	126,0	-	0,72	0,61	3 000	0,02
	380 800	1 020 500	145,2					
8×7×45	286 100	500 000	65,5	-	0,82	0,78	3 000	0,04
	286 100	500 000	65,5					
10×8×45	368 500	760 100	79,4	-	0,82	0,78	3 000	0,04
	440 600	1 010 200	90,9					
8×7×45	312 800	504 100	50,0	-	0,85	0,82	3 000	0,07
	312 800	504 100	50,0					
10×8×45	394 000	737 200	59,6	-	0,85	0,82	3 000	0,07
	486 000	1 028 300	69,8					
8×7×45	326 200	508 000	41,3	-	0,86	0,84	3 000	0,07
	326 200	508 000	41,3					
10×8×45	401 600	714 400	48,3	-	0,86	0,84	3 000	0,07
	493 200	989 600	56,5					
8×7×45	326 700	515 800	31,5	-	0,86	0,83	3 000	0,07
	326 700	515 800	31,5					
10×8×45	411 600	748 900	37,5	-	0,86	0,83	3 000	0,07
	494 100	997 100	43,1					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

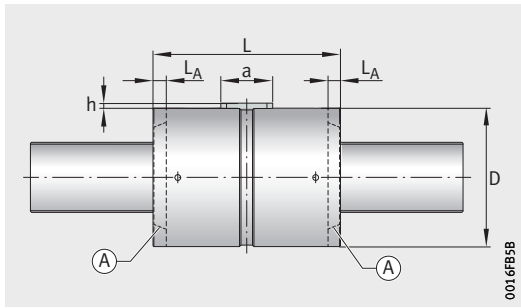
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
63	RGT-VTE-063.40 RGT-STE-063.40	40	5	A	–	5,9	118	115	–	45	8	3
				A	●	6,1	118	133	–			
		40	5	C	–	7,8	122	152	–	45	8	3
				C	●	7,8	122	152	–			
				D	–	8,5	122	152	–			
				D	●	8,5	122	152	–			
	RGT-VTE-063.45 RGT-STE-063.45	45	5	A	–	5,9	118	115	–	45	8	3
				A	●	6,1	118	133	–			
		45	5	C	–	7,8	122	152	–	45	8	3
				C	●	7,8	122	152	–			
				D	–	8,5	122	152	–			
				D	●	8,5	122	152	–			

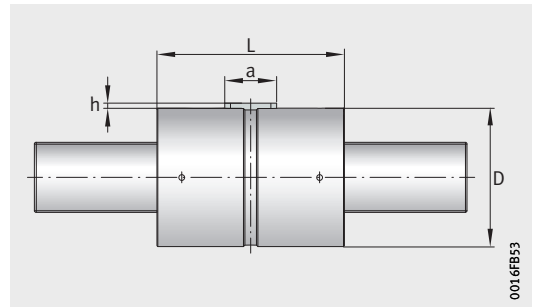
⊗ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

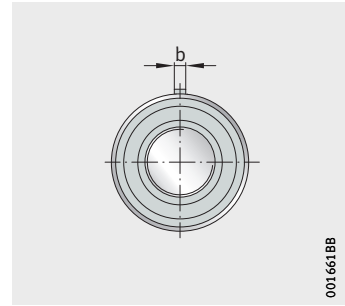


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
8×7×45	306 200	474 200	24,8	-	0,83	0,80	3 000	0,07
	306 200	474 200	24,8					
10×8×45	381 900	676 800	29,4	-	0,83	0,80	3 000	0,07
	381 900	676 800	29,4					
	492 000	1 004 500	35,6					
8×7×45	295 400	453 700	22,4	-	0,81	0,76	3 000	0,07
	295 400	453 700	22,4					
10×8×45	380 400	680 500	27,1	-	0,81	0,76	3 000	0,07
	380 400	680 500	27,1					
	463 000	624 100	31,5					

Roller screw drives

Cylindrical nut, single-piece
Standard design



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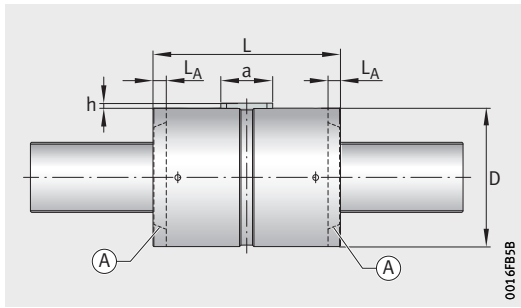
RGT-VTE, RGT-STE

Dimension table (continued) · Dimensions in mm

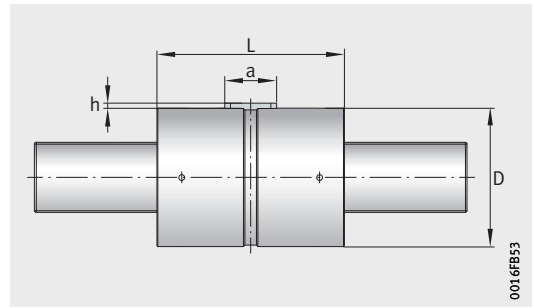
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D	L	L _A	a	b	h
							g6	h12			h9	
63	RGT-VTE-063.10 ³⁾ RGT-STE-063.10 ³⁾	10	6	A	–	4,6	115	111	–	45	8	3
				A	●	6,1	120	129	–			
				B	–	7,3	120	129	–			
	RGT-VTE-063.12 RGT-STE-063.12	12	6	A	–	4,6	115	111	–	45	8	3
				A	●	6,1	120	129	–			
				B	–	7,3	120	129	–			
	RGT-VTE-063.18 RGT-STE-063.18	18	6	A	–	4,6	115	111	–	45	8	3
				A	●	6,1	120	129	–			
				B	–	7,3	120	129	–			
	RGT-VTE-063.24 RGT-STE-063.24	24	6	A	–	4,6	115	111	–	45	8	3
				A	●	6,1	120	129	–			
				B	–	7,3	120	129	–			

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STE.
- 3) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 112.



With wiper

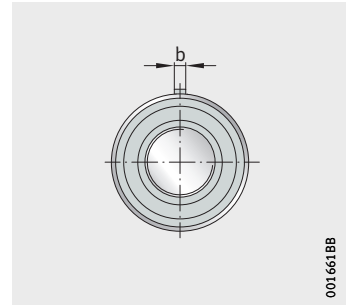


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ²⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
8×7×45	263 700	543 200	79,9	-	0,82	0,78	3 000	0,04
	263 700	543 200	79,9					
	319 400	735 500	92,4					
8×7×45	275 900	548 600	71,0	-	0,83	0,80	3 000	0,07
	275 900	548 600	71,0					
	330 000	728 000	81,3					
8×7×45	292 700	527 300	53,0	-	0,86	0,83	3 000	0,07
	292 700	527 300	53,0					
	356 300	718 400	61,5					
8×7×45	311 000	530 900	43,8	-	0,86	0,84	3 000	0,07
	311 000	530 900	43,8					
	365 100	682 900	49,4					

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

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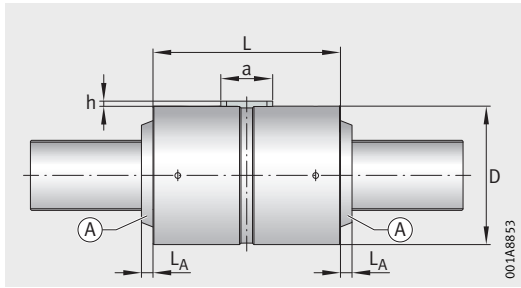
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
78	RGT-VTE-078.05 RGT-STE-078.05	5	6	A	●	14	150	178	–	63	10	3
				B	●	16		191	4			
		5	6	C	–	18	150	215	–	63	10	3
	RGT-VTE-078.10 RGT-STE-078.10	10	6	A	●	14	150	178	–	63	10	3
				B	●	16		191	4			
		10	6	C	–	18	150	215	–	63	10	3
	RGT-VTE-078.15 RGT-STE-078.15	15	6	A	●	14	150	178	–	63	10	3
				B	●	16		191	4			
		15	6	C	–	18	150	215	–	63	10	3
	RGT-VTE-078.20 RGT-STE-078.20	20	6	A	●	14	150	178	–	63	10	3
				B	●	16		191	4			
		20	6	C	–	18	150	215	–	63	10	3
	RGT-VTE-078.30 RGT-STE-078.30	30	6	A	●	14	150	178	–	63	10	3
				B	●	16		191	4			
		30	6	C	–	18	150	215	–	63	10	3
	RGT-VTE-078.36 RGT-STE-078.36	36	6	A	●	14	150	178	–	63	10	3
				B	●	16		191	4			
		36	6	C	–	18	150	215	–	63	10	3
RGT-VTE-078.42 RGT-STE-078.42	42	6	A	●	14	150	178	–	63	10	3	
			B	●	16		191	4				
	42	6	C	–	18	150	215	–	63	10	3	

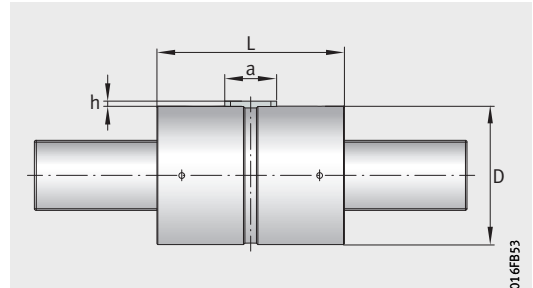
Ⓐ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

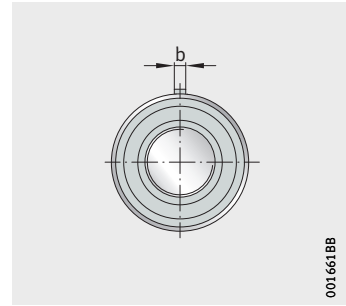


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ²⁾
	dyn. C N	stat. C ₀ N			η_1	η_2		
10×8×63	358 800	1 371 100	194,9	-	0,68	0,53	2 000	0,02
	417 300	1 739 400	219,8					
10×8×63	495 800	2 263 700	252,0	-	0,68	0,53	2 000	0,02
10×8×63	430 800	1 374 600	122,8	-	0,79	0,74	2 000	0,04
	501 000	1 742 700	138,4					
10×8×63	595 300	2 266 800	158,7	-	0,79	0,74	2 000	0,04
10×8×63	479 000	1 378 100	93,7	-	0,83	0,80	2 000	0,07
	551 200	1 717 400	104,8					
10×8×63	656 200	2 240 400	120,3	-	0,83	0,80	2 000	0,07
10×8×63	502 800	1 326 000	75,8	-	0,85	0,83	2 000	0,07
	593 700	1 720 700	86,5					
10×8×63	706 800	2 243 400	99,3	-	0,85	0,83	2 000	0,07
10×8×63	522 800	1 305 300	57,2	-	0,86	0,84	2 000	0,07
	625 500	1 727 200	66,0					
10×8×63	744 700	2 249 400	75,8	-	0,86	0,84	2 000	0,07
10×8×63	539 400	1 359 200	51,6	-	0,86	0,84	2 000	0,07
	613 900	1 662 600	57,2					
10×8×63	734 600	2 182 600	66,0	-	0,86	0,84	2 000	0,07
10×8×63	529 400	1 313 500	45,7	-	0,85	0,82	2 000	0,07
	617 000	1 666 400	51,6					
10×8×63	730 300	2 151 000	59,0	-	0,85	0,82	2 000	0,07

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

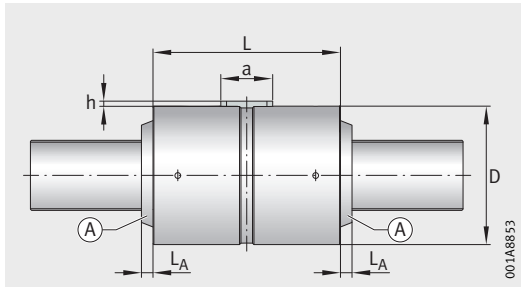
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Dimension table (continued) · Dimensions in mm

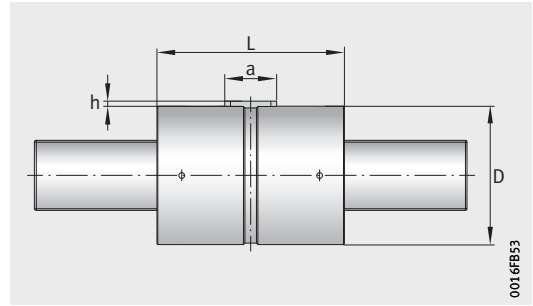
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	④	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
90	RGT-VTE-090.10 RGT-STE-090.10	10	6	A	●	27	175	245	7	100	12	3
				B	●	30		275	7			
		10	6	C	-	31	175	275	-	100	12	3
	RGT-VTE-090.15 RGT-STE-090.15	15	6	A	●	27	175	245	7	100	12	3
				B	●	30		275	7			
		15	6	C	-	31	175	275	-	100	12	3
	RGT-VTE-090.20 RGT-STE-090.20	20	6	A	●	27	175	245	7	100	12	3
				B	●	30		275	7			
		20	6	C	-	31	175	275	-	100	12	3
	RGT-VTE-090.25 RGT-STE-090.25	25	6	A	●	27	175	245	7	100	12	3
				B	●	30		275	7			
		25	6	C	-	31	175	275	-	100	12	3

④ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

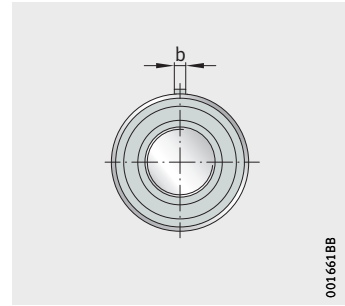


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ²⁾
	dyn. C N	stat. C_0 N			η_1	η_2		
12×8×100	708 700	2 816 000	173,5	–	0,77	0,71	1 700	0,04
	808 400	3 429 800	192,7					
12×8×100	852 000	3 705 600	200,9	–	0,77	0,71	1 700	0,04
12×8×100	782 000	2 785 800	131,6	–	0,82	0,78	1 700	0,07
	893 100	3 398 800	146,2					
12×8×100	947 700	3 708 900	153,3	–	0,82	0,78	1 700	0,07
12×8×100	849 400	2 823 200	109,3	–	0,85	0,82	1 700	0,07
	969 000	3 436 500	121,4					
12×8×100	1 021 300	3 712 100	126,5	–	0,85	0,82	1 700	0,07
12×8×100	855 800	2 793 000	93,6	–	0,86	0,83	1 700	0,07
	974 100	3 388 300	103,8					
12×8×100	1 023 900	3 646 300	107,9	–	0,86	0,83	1 700	0,07

Roller screw drives

Cylindrical nut, single-piece
Standard design



RGT-VTE, RGT-STE

001661BB

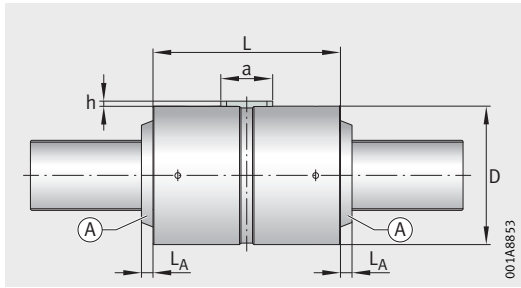
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
100	RGT-VTE-100.10 RGT-STE-100.10	10	5	A	●	38	200	260	10	63	10	3
				B	–	40			–			
	RGT-VTE-100.20 RGT-STE-100.20	20	5	A	●	38	200	260	10	63	10	3
				B	–	40			–			
	RGT-VTE-100.25 RGT-STE-100.25	25	5	A	●	38	200	260	10	63	10	3
				B	–	40			–			
	RGT-VTE-100.50 RGT-STE-100.50	50	5	A	●	38	200	260	10	63	10	3
				B	–	40			–			
	RGT-VTE-100.12 RGT-STE-100.12	12	6	A	●	20	180	195	10	63	10	3
				B	–	22			–			
	RGT-VTE-100.18 RGT-STE-100.18	18	6	A	●	20	180	195	10	63	10	3
				B	–	22			–			
	RGT-VTE-100.24 RGT-STE-100.24	24	6	A	●	20	180	195	10	63	10	3
				B	–	22			–			

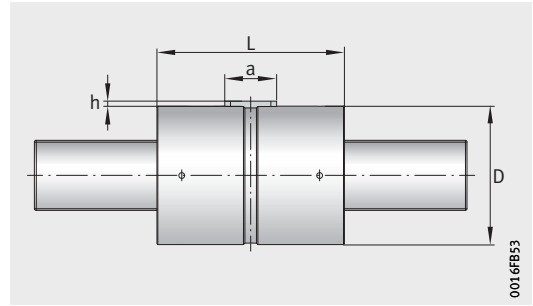
⊗ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Maximum axial clearance for non-preloaded nuts RGT-STE.



With wiper

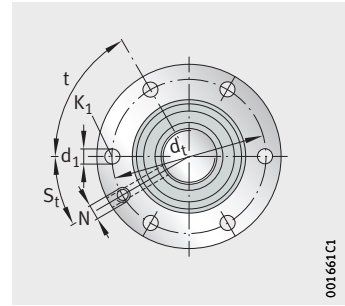


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clear- ance ²⁾																																																																									
	dyn. C N	stat. C_0 N			η_1	η_2																																																																											
10×8×63	1 124 300	3 436 100	142,8	—	0,76	0,68	1 600	0,04																																																																									
	1 245 600	4 042 800	154,6	—					10×8×63	1 119 600	3 273 600	87,7	—	0,84	0,81	1 600	0,07	1 245 200	3 875 300	95,2	—	10×8×63	1 116 400	3 222 400	74,9	—	0,85	0,83	1 600	0,07	1 243 200	3 822 300	81,4	—	10×8×63	1 137 200	3 262 100	47,2	—	0,85	0,83	1 600	0,07	1 266 500	3 861 100	51,3	—	10×8×63	635 600	1 665 800	105,4	—	0,78	0,72	1 600	0,04	772 200	2 308 700	123,1	—	10×8×63	656 900	1 621 800	79,3	—	0,83	0,79	1 600	0,07	818 900	2 343 800	94,5	—	10×8×63	655 700	1 578 100	64,5	—	0,85	0,82	1 600
10×8×63	1 119 600	3 273 600	87,7	—	0,84	0,81	1 600	0,07																																																																									
	1 245 200	3 875 300	95,2	—					10×8×63	1 116 400	3 222 400	74,9	—	0,85	0,83	1 600	0,07	1 243 200	3 822 300	81,4	—	10×8×63	1 137 200	3 262 100	47,2	—	0,85	0,83	1 600	0,07	1 266 500	3 861 100	51,3	—	10×8×63	635 600	1 665 800	105,4	—	0,78	0,72	1 600	0,04	772 200	2 308 700	123,1	—	10×8×63	656 900	1 621 800	79,3	—	0,83	0,79	1 600	0,07	818 900	2 343 800	94,5	—	10×8×63	655 700	1 578 100	64,5	—	0,85	0,82	1 600	0,07	826 900	2 323 700	77,5	—								
10×8×63	1 116 400	3 222 400	74,9	—	0,85	0,83	1 600	0,07																																																																									
	1 243 200	3 822 300	81,4	—					10×8×63	1 137 200	3 262 100	47,2	—	0,85	0,83	1 600	0,07	1 266 500	3 861 100	51,3	—	10×8×63	635 600	1 665 800	105,4	—	0,78	0,72	1 600	0,04	772 200	2 308 700	123,1	—	10×8×63	656 900	1 621 800	79,3	—	0,83	0,79	1 600	0,07	818 900	2 343 800	94,5	—	10×8×63	655 700	1 578 100	64,5	—	0,85	0,82	1 600	0,07	826 900	2 323 700	77,5	—																					
10×8×63	1 137 200	3 262 100	47,2	—	0,85	0,83	1 600	0,07																																																																									
	1 266 500	3 861 100	51,3	—					10×8×63	635 600	1 665 800	105,4	—	0,78	0,72	1 600	0,04	772 200	2 308 700	123,1	—	10×8×63	656 900	1 621 800	79,3	—	0,83	0,79	1 600	0,07	818 900	2 343 800	94,5	—	10×8×63	655 700	1 578 100	64,5	—	0,85	0,82	1 600	0,07	826 900	2 323 700	77,5	—																																		
10×8×63	635 600	1 665 800	105,4	—	0,78	0,72	1 600	0,04																																																																									
	772 200	2 308 700	123,1	—					10×8×63	656 900	1 621 800	79,3	—	0,83	0,79	1 600	0,07	818 900	2 343 800	94,5	—	10×8×63	655 700	1 578 100	64,5	—	0,85	0,82	1 600	0,07	826 900	2 323 700	77,5	—																																															
10×8×63	656 900	1 621 800	79,3	—	0,83	0,79	1 600	0,07																																																																									
	818 900	2 343 800	94,5	—					10×8×63	655 700	1 578 100	64,5	—	0,85	0,82	1 600	0,07	826 900	2 323 700	77,5	—																																																												
10×8×63	655 700	1 578 100	64,5	—	0,85	0,82	1 600	0,07																																																																									
	826 900	2 323 700	77,5	—																																																																													

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

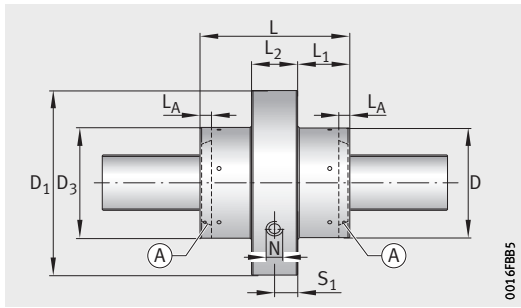
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Dimension table · Dimensions in mm

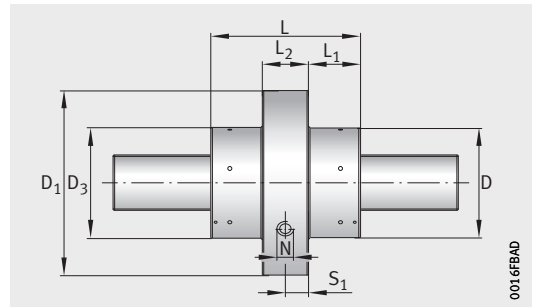
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
5	RGT-VTK-005.01 RGT-STK-005.01	1	3	A	–	0,2	19	40	19	31	–	9,5	12
				A	●	0,2				41	–	14,5	
				B	–	0,2				41	–	14,5	
	RGT-VTK-005.02 RGT-STK-005.02	2	3	A	–	0,2	19	40	19	31	–	9,5	12
				A	●	0,2				41	–	14,5	
				B	–	0,2				41	–	14,5	
	RGT-VTK-005.04 RGT-STK-005.04	4	3	A	–	0,2	19	40	19	31	–	9,5	12
				A	●	0,2				41	–	14,5	
				B	–	0,2				41	–	14,5	

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

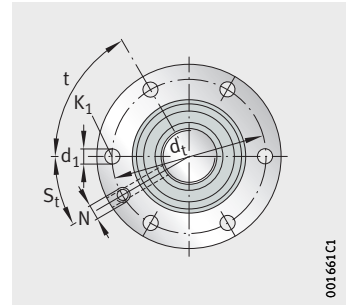


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
30	60	4,5	M4	M6	6	30	4 700	9 600	35,8	3	0,85	0,82	6 000	0,01
							4 700	9 600	35,8					
							7 400	20 600	51,2					
30	60	4,5	M4	M6	6	30	5 500	9 700	22,5	4	0,86	0,84	6 000	0,01
							5 500	9 700	22,5					
							8 700	20 700	32,3					
30	60	4,5	M4	M6	6	30	6 000	9 300	13,7	5	0,74	0,65	6 000	0,01
							6 000	9 300	13,7					
							9 900	20 900	20,3					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

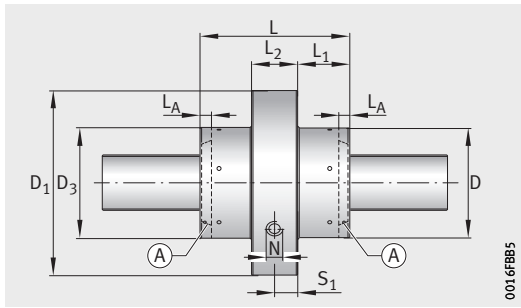
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Dimension table (continued) · Dimensions in mm

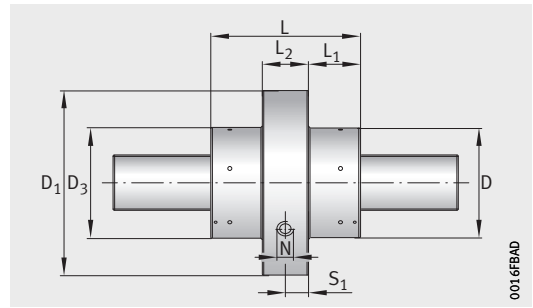
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
8	RGT-VTK-008.01 RGT-STK-008.01	1	4	A	–	0,2	21	41	21	31	–	7,5	16
				A	●	0,2				41	–	12,5	
				B	–	0,2				41	–	12,5	
		1	4	C	–	0,3	25	46	25	44	–	14,0	16
				C	●	0,3				44	–	14,0	
				D	–	0,3				44	–	14,0	
	RGT-VTK-008.02 RGT-STK-008.02	2	4	A	–	0,2	21	41	21	31	–	7,5	16
				A	●	0,2				41	–	12,5	
				B	–	0,2				41	–	12,5	
		2	4	C	–	0,3	25	46	25	44	–	14,0	16
				C	●	0,3				44	–	14,0	
				D	–	0,3				44	–	14,0	
	RGT-VTK-008.04 RGT-STK-008.04	4	4	A	–	0,2	21	41	21	31	–	7,5	16
				A	●	0,2				41	–	12,5	
				B	–	0,2				41	–	12,5	
		4	4	C	–	0,3	25	46	25	44	–	14,0	16
				C	●	0,3				44	–	14,0	
				D	–	0,3				44	–	14,0	
RGT-VTK-008.05 RGT-STK-008.05	5	4	A	–	0,2	21	41	21	31	–	7,5	16	
			A	●	0,2				41	–	12,5		
			B	–	0,2				41	–	12,5		
	5	4	C	–	0,3	25	46	25	44	–	14,0	16	
			C	●	0,3				44	–	14,0		
			D	–	0,3				44	–	14,0		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

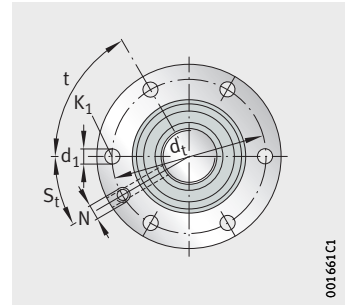


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C ₀ N			η_1	η_2		
31	60	4,5	M4	M6	8	30	7 500	14 600	54,0	3	0,79	0,73	5 800	0,02
							7 500	14 600	54,0					
							12 000	30 800	77,3					
36	60	4,5	M4	M6	8	30	8 800	19 300	61,5	3	0,79	0,73	5 800	0,02
							8 800	19 300	61,5					
							13 300	36 000	83,7					
31	60	4,5	M4	M6	8	30	8 700	14 700	34,0	4	0,85	0,83	5 800	0,02
							8 700	14 700	34,0					
							14 000	30 900	48,7					
36	60	4,5	M4	M6	8	30	14 000	30 900	48,7	4	0,85	0,83	5 800	0,02
							10 300	19 400	38,7					
							15 500	36 100	52,7					
31	60	4,5	M4	M6	8	30	10 000	14 900	21,4	5	0,85	0,83	5 800	0,02
							10 000	14 900	21,4					
							16 100	31 100	30,7					
36	60	4,5	M4	M6	8	30	11 900	19 600	24,4	5	0,85	0,83	5 800	0,02
							11 900	19 600	24,4					
							17 900	36 300	33,2					
31	60	4,5	M4	M6	8	30	10 300	14 700	18,2	6	0,83	0,80	5 800	0,02
							10 300	14 700	18,2					
							16 600	30 800	26,3					
36	60	4,5	M4	M6	8	30	11 900	18 500	20,4	6	0,83	0,80	5 800	0,02
							11 900	18 500	20,4					
							18 200	35 100	28,1					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

13196100

Dimension table (continued) - Dimensions in mm

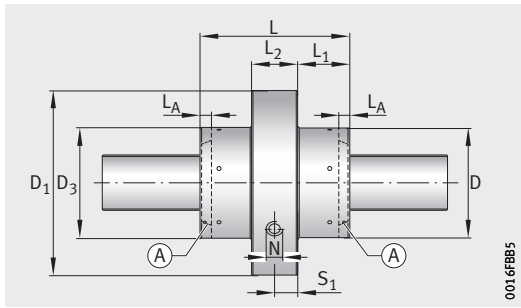
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
12	RGT-VTK-012.01 RGT-STK-012.01	1	4	A	-	0,3	32	51	32	31	-	7,5	16
				A	●	0,3				41	-	12,5	
				B	-	0,3				41	-	12,5	
		1	4	C	-	0,3	32	51	32	44	-	14,0	16
				C	●	0,3				44	-	14,0	
				D	-	0,3				44	-	14,0	
	RGT-VTK-012.02 RGT-STK-012.02	2	5	A	-	0,3	30	51	30	31	-	7,5	16
				A	●	0,3				41	-	12,5	
				B	-	0,3				41	-	12,5	
		2	5	C	-	0,3	30	51	30	44	-	14,0	16
				C	●	0,3				44	-	14,0	
	RGT-VTK-012.04 RGT-STK-012.04	4	5	A	-	0,3	30	51	30	31	-	7,5	16
				A	●	0,3				41	-	12,5	
				B	-	0,3				41	-	12,5	
		4	5	C	-	0,3	30	51	30	44	-	14,0	16
				C	●	0,3				44	-	14,0	
	RGT-VTK-012.05 RGT-STK-012.05	5	5	A	-	0,3	30	51	30	31	-	7,5	16
				A	●	0,3				41	-	12,5	
				B	-	0,3				41	-	12,5	
		5	5	C	-	0,3	30	51	30	44	-	14,0	16
				C	●	0,3				44	-	14,0	
RGT-VTK-012.10 RGT-STK-012.10	10	5	A	-	0,3	30	51	30	31	-	7,5	16	
			A	●	0,3				41	-	12,5		
			B	-	0,3				41	-	12,5		
	10	5	C	-	0,3	30	51	30	44	-	14,0	16	
			C	●	0,3				44	-	14,0		

⊗ Wipers: ● with wiper.

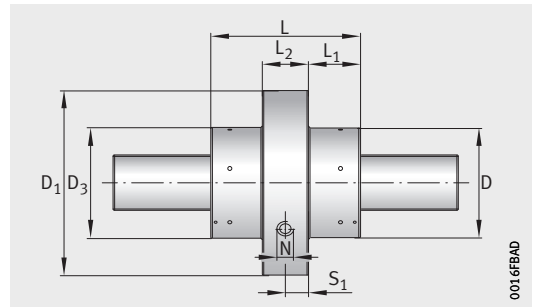
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTK.

3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

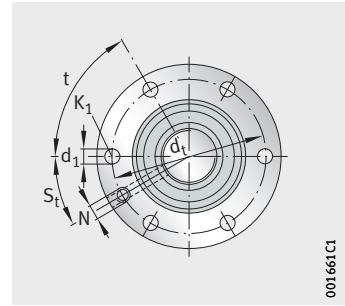


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
41	60	4,5	M4	M6	8	30	11 300	15 300	51,9	3	0,73	0,62	5 600	0,02
							11 300	15 300	51,9					
							18 900	36 000	76,5					
41	60	4,5	M4	M6	8	30	13 400	20 500	59,1	3	0,73	0,62	5 600	0,02
							13 400	20 500	59,1					
							20 200	40 100	80,5					
41	60	4,5	M4	M6	8	30	13 500	20 000	46,8	4	0,82	0,78	5 600	0,02
							13 500	20 000	46,8					
							24 000	48 700	72,2					
41	60	4,5	M4	M6	8	30	15 800	25 900	52,9	4	0,82	0,78	5 600	0,02
							15 800	25 900	52,9					
41	60	4,5	M4	M6	8	30	15 100	19 400	28,9	5	0,86	0,84	5 600	0,02
							15 100	19 400	28,9					
							27 300	48 000	45,0					
41	60	4,5	M4	M6	8	30	18 300	26 200	33,3	5	0,86	0,84	5 600	0,02
							18 300	26 200	33,3					
41	60	4,5	M4	M6	8	30	16 200	20 400	25,4	6	0,86	0,84	5 600	0,02
							16 200	20 400	25,4					
							29 100	49 500	39,4					
41	60	4,5	M4	M6	8	30	19 300	26 700	28,9	6	0,86	0,84	5 600	0,02
							19 300	26 700	28,9					
41	60	4,5	M4	M6	8	30	18 200	20 900	16,0	8	0,77	0,69	5 600	0,02
							18 200	20 900	16,0					
							31 600	47 700	24,2					
41	60	4,5	M4	M6	8	30	20 500	25 100	17,5	8	0,77	0,69	5 600	0,02
							20 500	25 100	17,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

13196100

Dimension table (continued) · Dimensions in mm

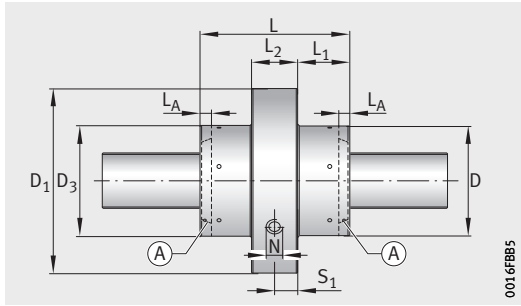
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
15	RGT-VTK-015.02 RGT-STK-015.02	2	5	A	–	0,4	34	58	34	35	–	8,5	18
				A	●	0,4				45	–	13,5	
				B	–	0,4				45	–	13,5	
		2	5	C	–	0,5	35	58	35	50	–	16,0	18
				C	●	0,5				50	–	16,0	
				D	–	0,5				50	–	16,0	
	RGT-VTK-015.04 RGT-STK-015.04	4	5	A	–	0,4	34	58	34	35	–	8,5	18
				A	●	0,4				45	–	13,5	
				B	–	0,4				45	–	13,5	
		4	5	C	–	0,5	35	58	35	50	–	16,0	18
				C	●	0,5				50	–	16,0	
				D	–	0,5				50	–	16,0	
	RGT-VTK-015.05 RGT-STK-015.05	5	5	A	–	0,4	34	58	34	35	–	8,5	18
				A	●	0,4				45	–	13,5	
				B	–	0,4				45	–	13,5	
		5	5	C	–	0,5	35	58	35	50	–	16,0	18
				C	●	0,5				50	–	16,0	
				D	–	0,5				50	–	16,0	
RGT-VTK-015.06 RGT-STK-015.06	6	5	A	–	0,4	34	58	34	35	–	8,5	18	
			A	●	0,4				45	–	13,5		
			B	–	0,4				45	–	13,5		
	6	5	C	–	0,5	35	58	35	50	–	16,0	18	
			C	●	0,5				50	–	16,0		
			D	–	0,5				50	–	16,0		

⊗ Wipers: ● with wiper.

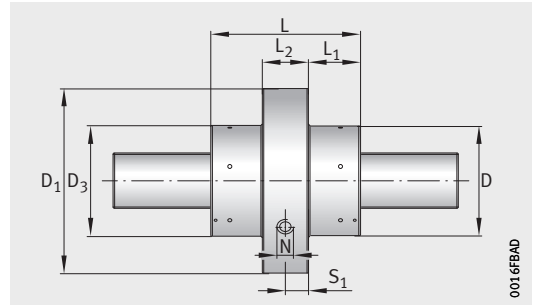
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTK.

3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

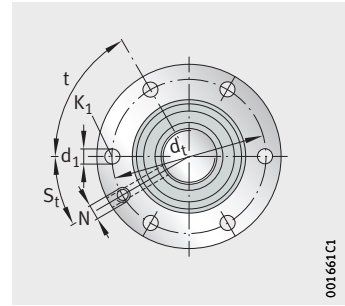


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Fric-tional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
46	60	5,5	M5	M6	9	30	15 700	22 400	48,6	6	0,80	0,75	5 500	0,02
							15 700	22 400	48,6					
							25 400	48 600	69,6					
46	60	5,5	M5	M6	9	30	20 500	34 500	59,1	6	0,80	0,75	5 500	0,02
							20 500	34 500	59,1					
							29 900	62 300	78,6					
46	60	5,5	M5	M6	9	30	17 700	21 800	30,0	7	0,86	0,83	5 500	0,02
							17 700	21 800	30,0					
							29 400	48 900	43,8					
46	60	5,5	M5	M6	9	30	23 200	33 800	36,7	7	0,86	0,83	5 500	0,02
							23 200	33 800	36,7					
							34 600	62 600	49,5					
46	60	5,5	M5	M6	9	30	19 000	22 900	26,4	9	0,86	0,84	5 500	0,02
							19 000	22 900	26,4					
							30 800	49 100	37,8					
46	60	5,5	M5	M6	9	30	25 000	35 500	32,3	9	0,86	0,84	5 500	0,02
							25 000	35 500	32,3					
							36 400	63 300	42,9					
46	60	5,5	M5	M6	9	30	18 700	21 200	22,5	10	0,86	0,84	5 500	0,02
							18 700	21 200	22,5					
							31 900	49 200	33,5					
46	60	5,5	M5	M6	9	30	24 700	33 100	27,6	10	0,86	0,84	5 500	0,02
							24 700	33 100	27,6					
							37 500	62 800	37,8					

Roller screw drives

Flanged nut, single-piece
Standard design



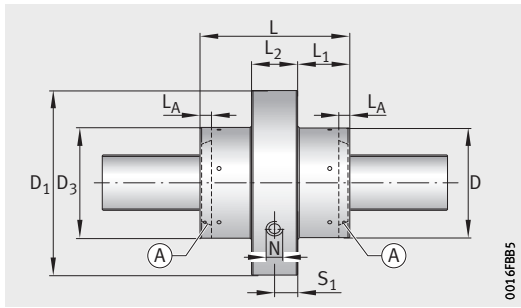
RGT-VTK, RGT-STK

Dimension table (continued) - Dimensions in mm

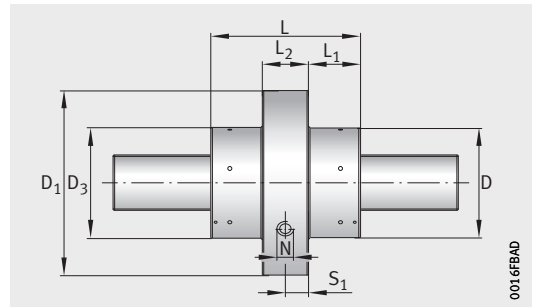
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
15	RGT-VTK-015.08 RGT-STK-015.08	8	5	A	–	0,4	34	58	34	35	–	8,5	18
				A	●	0,4				45	–	13,5	
				B	–	0,4				45	–	13,5	
		8	5	C	–	0,5	35	58	35	50	–	16,0	18
				C	●	0,5				50	–	16,0	
				D	–	0,5				50	–	16,0	
	RGT-VTK-015.10 RGT-STK-015.10	10	5	A	–	0,4	34	58	34	35	–	8,5	18
				A	●	0,4				45	–	13,5	
				B	–	0,4				45	–	13,5	
		10	5	C	–	0,5	35	58	35	50	–	16,0	18
				C	●	0,5				50	–	16,0	
				D	–	0,5				50	–	16,0	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

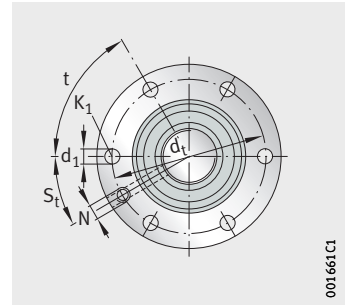


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
46	60	5,5	M5	M6	9	30	19 200	20 500	18,2	12	0,85	0,82	5 500	0,02
							19 200	20 500	18,2					
							31 600	45 100	26,4					
46	60	5,5	M5	M6	9	30	25 500	32 300	22,5	12	0,85	0,82	5 500	0,02
							25 500	32 300	22,5					
							37 600	58 500	30,0					
46	60	5,5	M5	M6	9	30	18 900	19 000	15,0	14	0,82	0,78	5 500	0,02
							18 900	19 000	15,0					
							32 300	44 300	22,5					
46	60	5,5	M5	M6	9	30	27 000	33 700	19,6	14	0,82	0,78	5 500	0,02
							27 000	33 700	19,6					
							40 100	61 100	26,4					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

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Dimension table (continued) · Dimensions in mm

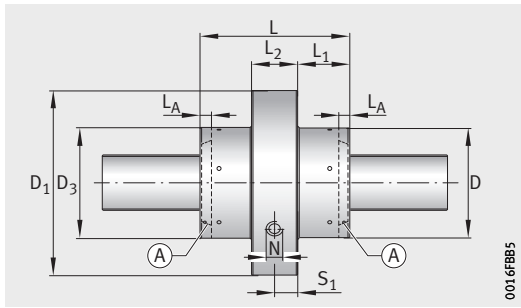
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
20	RGT-VTK-020.02 RGT-STK-020.02	2	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	
	RGT-VTK-020.04 RGT-STK-020.04	4	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	
	RGT-VTK-020.05 RGT-STK-020.05	5	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	
	RGT-VTK-020.06 RGT-STK-020.06	6	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	
	RGT-VTK-020.10 RGT-STK-020.10	10	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	
	RGT-VTK-020.12 RGT-STK-020.12	12	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	
	RGT-VTK-020.20 RGT-STK-020.20	20	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	

⊗ Wipers: ● with wiper.

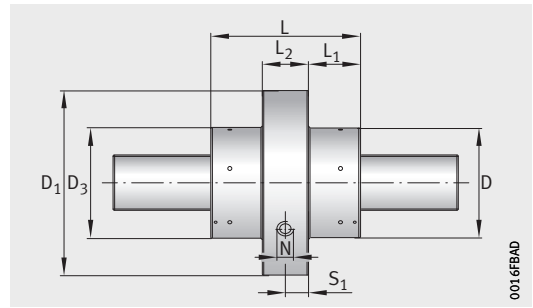
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTK.

3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

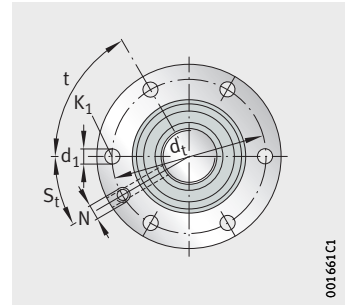


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_k $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
56	60	5,5	M5	M6	9	30	32 300	66 400	78,3	18	0,76	0,69	5 200	0,02
							32 300	66 400	78,3					
							42 700	102 700	96,7					
56	60	5,5	M5	M6	9	30	37 200	65 400	48,8	20	0,84	0,81	5 200	0,02
							37 200	65 400	48,8					
							49 800	103 100	60,9					
56	60	5,5	M5	M6	9	30	39 800	67 700	42,7	24	0,85	0,83	5 200	0,02
							39 800	67 700	42,7					
							52 500	104 000	52,7					
56	60	5,5	M5	M6	9	30	40 600	65 800	37,3	26	0,86	0,84	5 200	0,02
							40 600	65 800	37,3					
							53 300	100 500	45,8					
56	60	5,5	M5	M6	9	30	44 400	65 200	26,2	35	0,85	0,83	5 200	0,04
							44 400	65 200	26,2					
							59 100	101 200	32,6					
56	60	5,5	M5	M6	9	30	46 500	67 000	23,5	40	0,83	0,80	5 200	0,04
							46 500	67 000	23,5					
							61 100	101 600	28,9					
56	60	5,5	M5	M6	9	30	46 000	60 200	15,7	50	0,67	0,50	5 200	0,07
							46 000	60 200	15,7					
							65 700	103 000	20,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

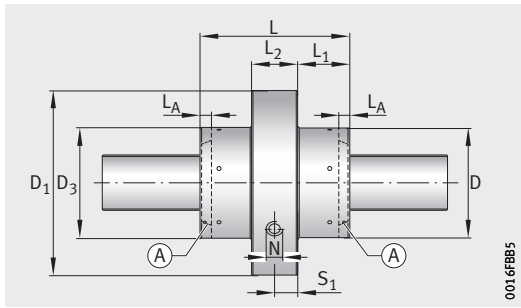
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Dimension table (continued) · Dimensions in mm

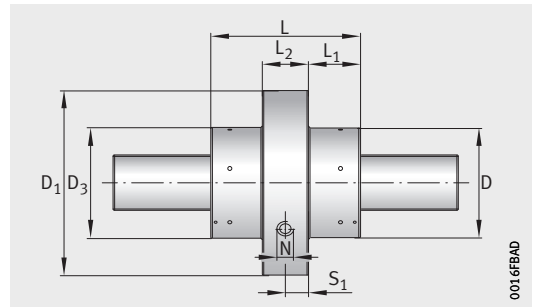
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
21	RGT-VTK-021.02 RGT-STK-021.02	2	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	
	RGT-VTK-021.04 RGT-STK-021.04	4	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	
	RGT-VTK-021.05 RGT-STK-021.05	5	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	
	RGT-VTK-021.06 RGT-STK-021.06	6	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	
	RGT-VTK-021.10 RGT-STK-021.10	10	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	
	RGT-VTK-021.12 RGT-STK-021.12	12	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	
	RGT-VTK-021.20 RGT-STK-021.20	20	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

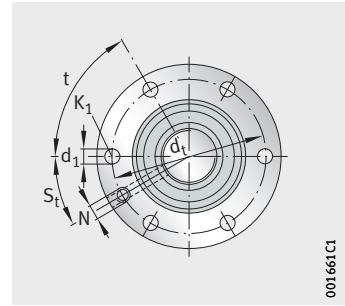


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
56	60	5,5	M5	M6	9	30	43 600	90 200	93,3	20	0,75	0,67	5 200	0,02
							56 800	137 600	114,4					
56	60	5,5	M5	M6	9	30	51 600	90 700	58,8	22	0,83	0,80	5 200	0,02
							66 500	136 100	71,6					
56	60	5,5	M5	M6	9	30	54 500	91 000	50,7	25	0,85	0,82	5 200	0,02
							70 800	138 300	62,1					
56	60	5,5	M5	M6	9	30	56 200	89 400	44,4	30	0,86	0,83	5 200	0,02
							72 600	134 700	54,2					
56	60	5,5	M5	M6	9	30	59 900	83 200	30,4	38	0,86	0,83	5 200	0,04
							79 200	129 900	37,7					
56	60	5,5	M5	M6	9	30	63 000	85 500	27,2	45	0,84	0,81	5 200	0,04
							82 300	130 300	33,4					
56	60	5,5	M5	M6	9	30	55 500	62 800	15,9	60	0,71	0,59	5 200	0,07
							71 100	92 600	19,2					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

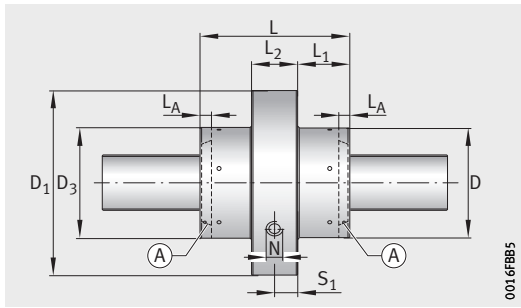
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Dimension table (continued) · Dimensions in mm

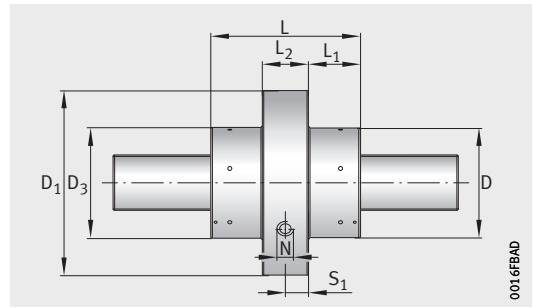
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
24	RGT-VTK-024.02 RGT-STK-024.02	2	5	A	–	0,8	48	80	48	55	–	17,5	20
				A	●	0,9				65	–	22,5	
				B	–	0,9				65	–	22,5	
	RGT-VTK-024.04 RGT-STK-024.04	4	5	A	–	0,8	48	80	48	55	–	17,5	20
				A	●	0,9				65	–	22,5	
				B	–	0,9				65	–	22,5	
	RGT-VTK-024.05 RGT-STK-024.05	5	5	A	–	0,8	48	80	48	55	–	17,5	20
				A	●	0,9				65	–	22,5	
				B	–	0,9				65	–	22,5	
	RGT-VTK-024.06 RGT-STK-024.06	6	5	A	–	0,8	48	80	48	55	–	17,5	20
				A	●	0,9				65	–	22,5	
				B	–	0,9				65	–	22,5	
	RGT-VTK-024.12 RGT-STK-024.12	12	5	A	–	0,8	48	80	48	55	–	17,5	20
				A	●	0,9				65	–	22,5	
				B	–	0,9				65	–	22,5	
	RGT-VTK-024.20 RGT-STK-024.20	20	5	A	–	0,8	48	80	48	55	–	17,5	20
				A	●	0,9				65	–	22,5	
				B	–	0,9				65	–	22,5	

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

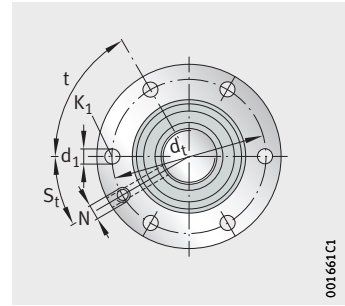


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Fric-tional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
66	60	6,5	M6	M6	10	30	42 000	77 400	86,4	24	0,73	0,62	5 000	0,02
							42 000	77 400	86,4					
							60 600	143 200	114,9					
66	60	6,5	M6	M6	10	30	49 600	78 100	54,5	28	0,82	0,78	5 000	0,02
							49 600	78 100	54,5					
							71 700	143 800	72,4					
66	60	6,5	M6	M6	10	30	52 400	78 400	46,9	32	0,84	0,81	5 000	0,02
							52 400	78 400	46,9					
							76 000	145 200	62,6					
66	60	6,5	M6	M6	10	30	54 700	78 700	41,6	50	0,85	0,83	5 000	0,02
							54 700	78 700	41,6					
							77 500	140 100	54,5					
66	60	6,5	M6	M6	10	30	58 500	69 100	24,4	70	0,85	0,83	5 000	0,04
							58 500	69 100	24,4					
							90 700	141 800	34,3					
66	60	6,5	M6	M6	10	30	60 300	64 000	16,5	85	0,77	0,69	5 000	0,07
							60 300	64 000	16,5					
							90 300	122 900	22,6					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

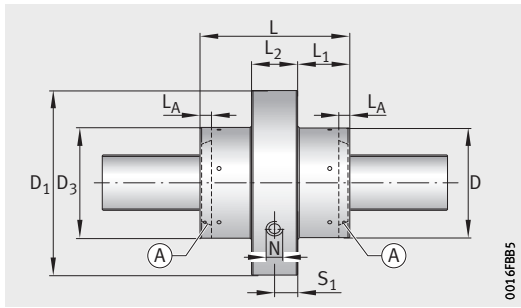
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Dimension table (continued) · Dimensions in mm

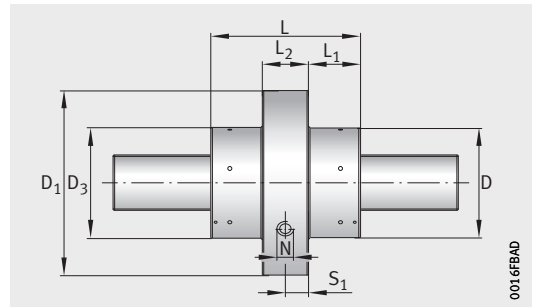
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
25	RGT-VTK-025.02 RGT-STK-025.02	2	5	A	●	1,3	56	84	56	78	–	29	20
				B	–	1,3				78	–	29	
	RGT-VTK-025.04 RGT-STK-025.04	4	5	A	●	1,3	56	84	56	78	–	29	20
				B	–	1,3				78	–	29	
	RGT-VTK-025.05 RGT-STK-025.05	5	5	A	●	1,3	56	84	56	78	–	29	20
				B	–	1,3				78	–	29	
	RGT-VTK-025.06 RGT-STK-025.06	6	5	A	●	1,3	56	84	56	78	–	29	20
				B	–	1,3				78	–	29	
	RGT-VTK-025.12 RGT-STK-025.12	12	5	A	●	1,3	56	84	56	78	–	29	20
				B	–	1,3				78	–	29	
	RGT-VTK-025.20 RGT-STK-025.20	20	5	A	●	1,3	56	84	56	78	–	29	20
				B	–	1,3				78	–	29	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

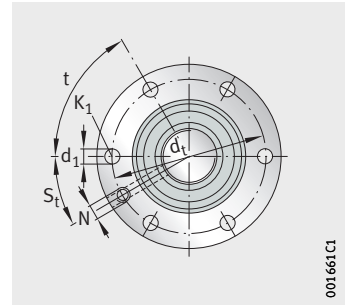


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
70	60	6,5	M6	M6	10	30	60 600	143 200	114,9	26	0,73	0,62	5 000	0,02
							74 500	198 600	134,9					
70	60	6,5	M6	M6	10	30	71 700	143 800	72,4	38	0,82	0,78	5 000	0,02
							87 500	196 900	84,5					
70	60	6,5	M6	M6	10	30	76 000	145 200	62,6	43	0,84	0,81	5 000	0,02
							93 400	200 600	73,5					
70	60	6,5	M6	M6	10	30	77 500	140 100	54,5	58	0,85	0,83	5 000	0,02
							97 200	199 700	64,9					
70	60	6,5	M6	M6	10	30	90 700	141 800	34,3	75	0,85	0,83	5 000	0,04
							111 200	194 600	40,2					
70	60	6,5	M6	M6	10	30	79 000	100 500	19,7	90	0,77	0,69	5 000	0,07
							153 600	103 900	24,4					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

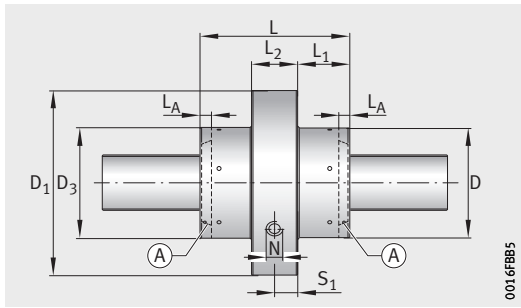
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Dimension table (continued) · Dimensions in mm

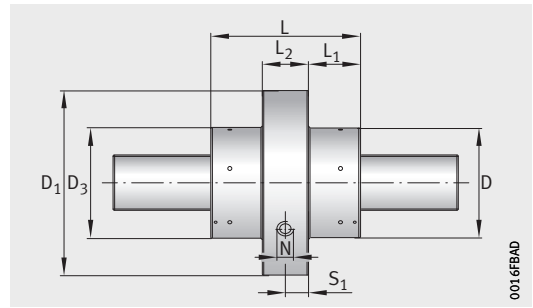
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
27	RGT-VTK-027.02 RGT-STK-027.02	2	5	A	–	1,1	55	84	55	55	–	17,5	20
				A	●	1,2				69	–	24,5	
				B	–	1,2				69	–	24,5	
		2	5	C	–	1,4	55	84	55	79	–	29,5	20
				C	●	1,4				79	–	29,5	
				D	–	1,4				79	–	29,5	
	RGT-VTK-027.04 RGT-STK-027.04	4	5	A	–	1,1	55	84	55	55	–	17,5	20
				A	●	1,2				69	–	24,5	
				B	–	1,2				69	–	24,5	
		4	5	C	–	1,4	55	84	55	79	–	29,5	20
				C	●	1,4				79	–	29,5	
				D	–	1,4				79	–	29,5	
	RGT-VTK-027.05 RGT-STK-027.05	5	5	A	–	1,1	55	84	55	55	–	17,5	20
				A	●	1,2				69	–	24,5	
				B	–	1,2				69	–	24,5	
		5	5	C	–	1,4	55	84	55	79	–	29,5	20
				C	●	1,4				79	–	29,5	
				D	–	1,4				79	–	29,5	
RGT-VTK-027.06 RGT-STK-027.06	6	5	A	–	1,1	55	84	55	55	–	17,5	20	
			A	●	1,2				69	–	24,5		
			B	–	1,2				69	–	24,5		
	6	5	C	–	1,4	55	84	55	79	–	29,5	20	
			C	●	1,4				79	–	29,5		
			D	–	1,4				79	–	29,5		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

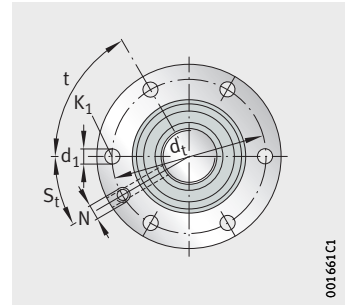


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
70	60	6,5	M6	M6	10	30	45 400	75 900	85,5	28	0,71	0,58	4 900	0,02
							45 400	75 900	85,5					
							68 800	153 500	117,6					
70	60	6,5	M6	M6	10	30	62 300	130 300	108,9	28	0,71	0,58	4 900	0,02
							62 300	130 300	108,9					
							84 800	214 400	138,0					
70	60	6,5	M6	M6	10	30	52 500	74 500	53,2	40	0,81	0,76	4 900	0,02
							52 500	74 500	53,2					
							80 900	154 200	74,1					
70	60	6,5	M6	M6	10	30	73 200	131 000	68,6	40	0,81	0,76	4 900	0,02
							73 200	131 000	68,6					
							99 000	212 500	86,5					
70	60	6,5	M6	M6	10	30	54 400	72 900	45,3	45	0,83	0,80	4 900	0,02
							54 400	72 900	45,3					
							83 600	149 900	62,9					
70	60	6,5	M6	M6	10	30	75 400	126 700	58,2	45	0,83	0,80	4 900	0,02
							75 400	126 700	58,2					
							103 400	210 400	74,1					
70	60	6,5	M6	M6	10	30	58 600	77 300	41,1	60	0,85	0,82	4 900	0,02
							58 600	77 300	41,1					
							87 100	150 200	55,7					
70	60	6,5	M6	M6	10	30	76 900	122 500	50,6	60	0,85	0,82	4 900	0,02
							76 900	122 500	50,6					
							107 000	208 200	65,2					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

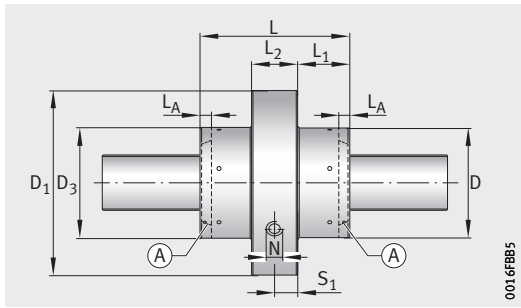
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Dimension table (continued) · Dimensions in mm

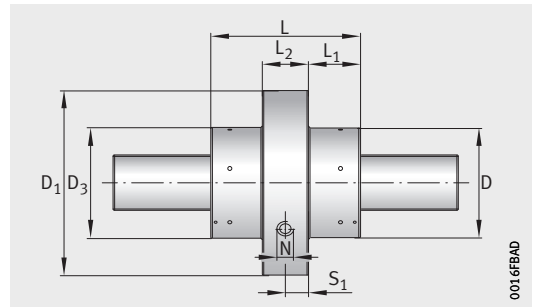
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃	L	L _A	L ₁	L ₂
27	RGT-VTK-027.08 RGT-STK-027.08	8	5	A	–	1,1	55	84	55	55	–	17,5	20
				A	●	1,2				69	–	24,5	
				B	–	1,2				69	–	24,5	
		8	5	C	–	1,4	55	84	55	79	–	29,5	20
				C	●	1,4				79	–	29,5	
				D	–	1,4				79	–	29,5	
	RGT-VTK-027.15 RGT-STK-027.15	15	5	A	–	1,1	55	84	55	55	–	17,5	20
				A	●	1,2				69	–	24,5	
				B	–	1,2				69	–	24,5	
		15	5	C	–	1,4	55	84	55	79	–	29,5	20
				C	●	1,4				79	–	29,5	
				D	–	1,4				79	–	29,5	
RGT-VTK-027.25 RGT-STK-027.25	25	5	B	–	1,2	55	84	55	69	–	24,5	20	
			C	–	1,4				79	–	29,5		
	25	5	C	●	1,4	55	84	55	79	–	29,5	20	
			D	–	1,4				79	–	29,5		

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

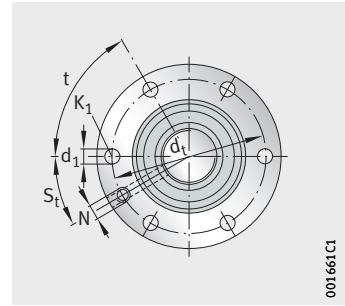


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed η_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
70	60	6,5	M6	M6	10	30	61 500	75 900	33,5	75	0,86	0,84	4 900	0,02
							61 500	75 900	33,5					
							94 800	155 600	46,7					
70	60	6,5	M6	M6	10	30	83 900	127 800	42,5	75	0,86	0,84	4 900	0,02
							83 900	127 800	42,5					
							116 000	213 800	54,5					
70	60	6,5	M6	M6	10	30	66 500	71 200	21,1	90	0,85	0,82	4 900	0,04
							66 500	71 200	21,1					
							106 200	153 200	30,2					
70	60	6,5	M6	M6	10	30	90 600	118 800	26,8	90	0,85	0,82	4 900	0,04
							90 600	118 800	26,8					
							129 000	207 400	35,1					
70	60	6,5	M6	M6	10	30	86 300	99 800	16,7	100	0,72	0,62	4 900	0,07
							86 300	99 800	16,7					
							86 300	99 800	16,7					
							110 900	147 300	20,2					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

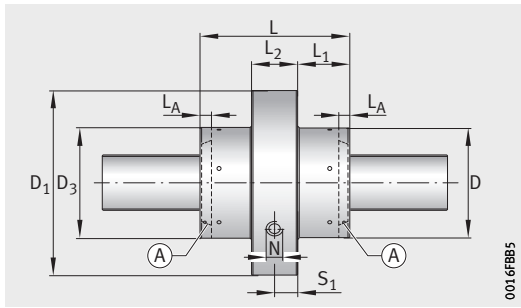
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Dimension table (continued) · Dimensions in mm

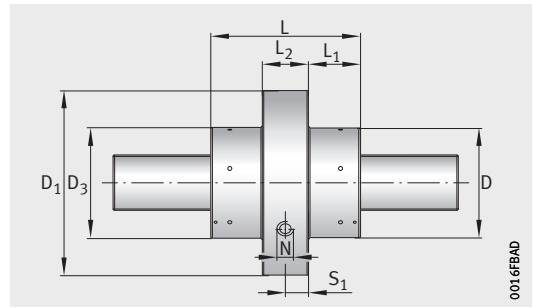
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions						
							D g6	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
30	RGT-VTK-030.02 RGT-STK-030.02	2	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
		2	5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	
	RGT-VTK-030.04 RGT-STK-030.04	4	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
		4	5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	
	RGT-VTK-030.05 RGT-STK-030.05	5	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
		5	5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	
	RGT-VTK-030.06 RGT-STK-030.06	6	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
		6	5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

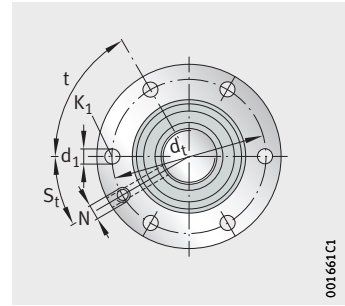


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
81	60	9	M8	M6	13,5	30	49 300	75 200	85,1	30	0,69	0,54	4 700	0,02
							49 300	75 200	85,1					
							76 000	157 900	118,1					
81	60	9	M8	M6	13,5	30	79 700	170 700	122,5	30	0,69	0,54	4 700	0,02
							79 700	170 700	122,5					
							102 900	256 300	148,6					
81	60	9	M8	M6	13,5	30	56 600	73 900	52,9	45	0,80	0,75	4 700	0,02
							56 600	73 900	52,9					
							88 700	158 700	74,4					
81	60	9	M8	M6	13,5	30	92 200	168 900	76,6	45	0,80	0,75	4 700	0,02
							92 200	168 900	76,6					
							119 300	254 300	93,1					
81	60	9	M8	M6	13,5	30	60 400	76 400	46,2	55	0,82	0,78	4 700	0,02
							60 400	76 400	46,2					
							93 200	159 100	64,1					
81	60	9	M8	M6	13,5	30	97 800	171 800	66,5	55	0,82	0,78	4 700	0,02
							97 800	171 800	66,5					
							126 700	258 800	80,9					
81	60	9	M8	M6	13,5	30	61 900	74 600	40,4	70	0,84	0,81	4 700	0,02
							61 900	74 600	40,4					
							97 100	159 400	56,8					
81	60	9	M8	M6	13,5	30	99 900	167 100	58,0	70	0,84	0,81	4 700	0,02
							99 900	167 100	58,0					
							130 500	255 000	71,1					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

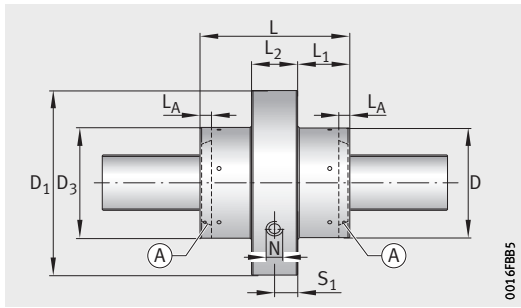
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Dimension table (continued) · Dimensions in mm

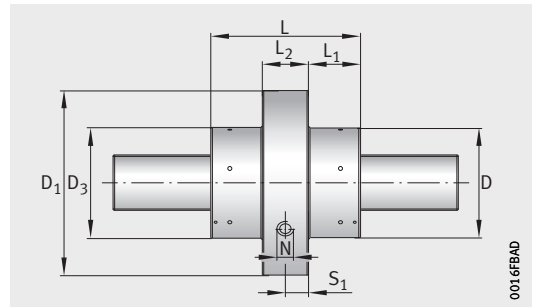
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
30	RGT-VTK-030.08 RGT-STK-030.08	8	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
		8	5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	
	RGT-VTK-030.10 RGT-STK-030.10	10	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
		10	5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	
	RGT-VTK-030.20 RGT-STK-030.20	20	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
		20	5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

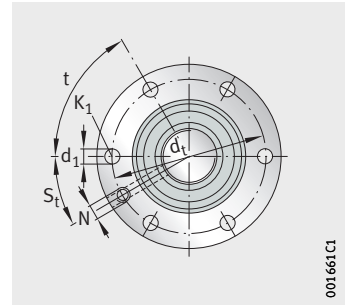


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
81	60	9	M8	M6	13,5	30	63 800	71 100	32,5	80	0,86	0,83	4 700	0,02
							63 800	71 100	32,5					
							101 300	155 200	46,2					
81	60	9	M8	M6	13,5	30	105 400	165 300	47,6	80	0,86	0,83	4 700	0,02
							105 400	165 300	47,6					
							137 000	250 200	58,0					
81	60	9	M8	M6	13,5	30	64 600	67 700	27,3	100	0,86	0,84	4 700	0,04
							64 600	67 700	27,3					
							103 000	148 400	38,9					
81	60	9	M8	M6	13,5	30	113 600	173 700	41,9	100	0,86	0,84	4 700	0,04
							113 600	173 700	41,9					
							144 700	253 700	50,3					
81	60	9	M8	M6	13,5	30	73 900	71 100	17,2	140	0,82	0,78	4 700	0,07
							73 900	71 100	17,2					
							123 900	164 600	25,4					
81	60	9	M8	M6	13,5	30	123 900	164 600	25,4	140	0,82	0,78	4 700	0,07
							123 900	164 600	25,4					
							159 600	243 500	30,8					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

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Dimension table (continued) · Dimensions in mm

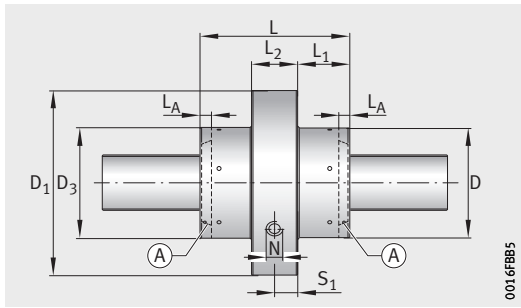
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
36	RGT-VTK-036.02 RGT-STK-036.02	2	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTK-036.04 RGT-STK-036.04	4	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTK-036.05 RGT-STK-036.05	5	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTK-036.06 RGT-STK-036.06	6	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTK-036.08 RGT-STK-036.08	8	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTK-036.10 RGT-STK-036.10	10	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTK-036.20 RGT-STK-036.20	20	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTK-036.25 RGT-STK-036.25	25	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTK-036.30 RGT-STK-036.30	30	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	

⊗ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

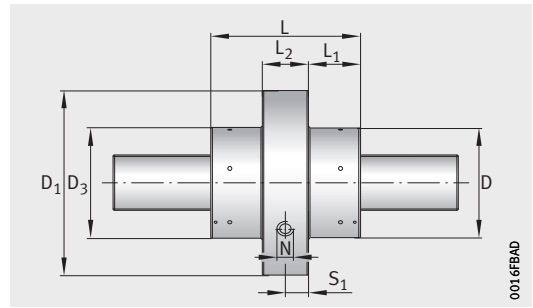
2) Overrunning frictional torque for preloaded nuts RGT-VTK.

3) Maximum axial clearance for non-preloaded nuts RGT-STK.



0016FBBS

With wiper



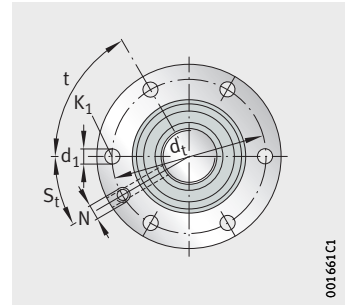
0016FBAD

Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
92	60	9	M8	M6	12,5	30	70 400	131 900	107,9	45	0,65	0,46	4 400	0,02
							70 400	131 900	107,9					
							98 200	233 300	139,2					
92	60	9	M8	M6	12,5	30	81 800	130 100	67,3	60	0,77	0,71	4 400	0,02
							81 800	130 100	67,3					
							115 500	234 200	87,7					
92	60	9	M8	M6	12,5	30	87 200	133 300	58,6	70	0,80	0,75	4 400	0,02
							87 200	133 300	58,6					
							121 600	234 700	75,6					
92	60	9	M8	M6	12,5	30	90 900	133 700	51,9	80	0,82	0,78	4 400	0,02
							90 900	133 700	51,9					
							124 900	229 100	66,1					
92	60	9	M8	M6	12,5	30	93 800	126 600	41,7	100	0,85	0,82	4 400	0,02
							93 800	126 600	41,7					
							133 400	230 000	54,6					
92	60	9	M8	M6	12,5	30	96 200	122 200	35,2	120	0,86	0,83	4 400	0,04
							96 200	122 200	35,2					
							137 000	221 800	46,2					
92	60	9	M8	M6	12,5	30	111 600	126 500	22,2	160	0,85	0,82	4 400	0,07
							111 600	126 500	22,2					
							152 100	211 200	28,1					
92	60	9	M8	M6	12,5	30	105 300	109 100	17,7	180	0,81	0,77	4 400	0,07
							105 300	109 100	17,7					
							158 500	213 400	24,3					
92	60	9	M8	M6	12,5	30	127 100	144 000	17,7	200	0,77	0,69	4 400	0,07
							127 100	144 000	17,7					
							170 300	230 400	22,2					

Roller screw drives

Flanged nut, single-piece
Standard design



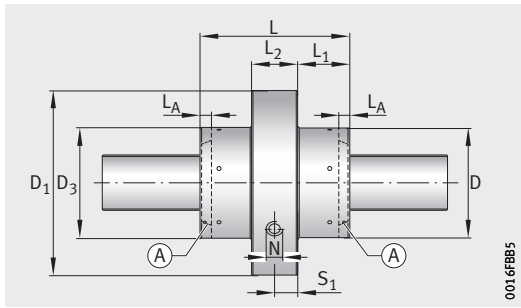
RGT-VTK, RGT-STK

Dimension table (continued) · Dimensions in mm

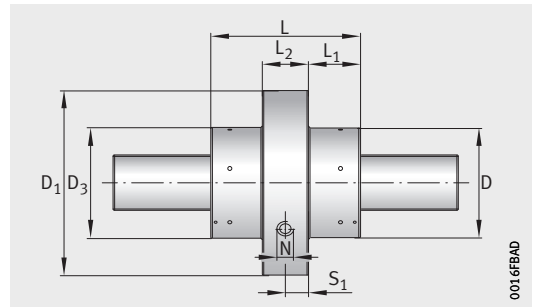
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
39	RGT-VTK-039.02 RGT-STK-039.02	2	5	A	–	3,8	80	124	80	72	–	19,5	33
				A	●	3,8				90	–	28,5	
				B	–	3,8				90	–	28,5	
		2	5	C	–	4,0	82	124	82	100	–	33,5	33
				C	●	4,0				100	–	33,5	
				D	–	4,0				100	–	33,5	
	RGT-VTK-039.04 RGT-STK-039.04	4	5	A	–	3,8	80	124	80	72	–	19,5	33
				A	●	3,8				90	–	28,5	
				B	–	3,8				90	–	28,5	
		4	5	C	–	4,0	82	124	82	100	–	33,5	33
				C	●	4,0				100	–	33,5	
				D	–	4,0				100	–	33,5	
	RGT-VTK-039.05 RGT-STK-039.05	5	5	A	–	3,8	80	124	80	72	–	19,5	33
				A	●	3,8				90	–	28,5	
				B	–	3,8				90	–	28,5	
		5	5	C	–	4,0	82	124	82	100	–	33,5	33
				C	●	4,0				100	–	33,5	
				D	–	4,0				100	–	33,5	
RGT-VTK-039.10 RGT-STK-039.10	10	5	A	–	3,8	80	124	80	72	–	19,5	33	
			A	●	3,8				90	–	28,5		
			B	–	3,8				90	–	28,5		
	10	5	C	–	4,0	82	124	82	100	–	33,5	33	
			C	●	4,0				100	–	33,5		
			D	–	4,0				100	–	33,5		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

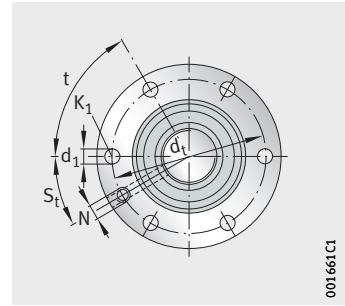


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
102	60	11	M10	M6	16,5	30	84 000	156 900	116,0	80	0,63	0,42	4 200	0,02
							84 000	156 900	116,0					
							123 500	299 900	155,3					
102	60	11	M10	M6	16,5	30	114 900	266 500	147,1	80	0,63	0,42	4 200	0,02
							114 900	266 500	147,1					
							144 600	386 300	175,1					
102	60	11	M10	M6	16,5	30	98 100	157 900	73,1	95	0,76	0,69	4 200	0,02
							98 100	157 900	73,1					
							143 200	297 600	97,3					
102	60	11	M10	M6	16,5	30	133 200	264 300	92,1	95	0,76	0,69	4 200	0,02
							133 200	264 300	92,1					
							168 900	387 200	110,3					
102	60	11	M10	M6	16,5	30	100 900	152 600	62,0	110	0,79	0,74	4 200	0,02
							100 900	152 600	62,0					
							149 500	294 700	83,4					
102	60	11	M10	M6	16,5	30	138 900	261 500	78,9	110	0,79	0,74	4 200	0,02
							138 900	261 500	78,9					
							175 500	380 700	94,2					
102	60	11	M10	M6	16,5	30	117 600	155 000	39,0	170	0,85	0,83	4 200	0,04
							117 600	155 000	39,0					
							174 200	297 200	52,6					
102	60	11	M10	M6	16,5	30	161 800	264 000	49,7	170	0,85	0,83	4 200	0,04
							161 800	264 000	49,7					
							204 500	383 100	59,4					

Roller screw drives

Flanged nut, single-piece
Standard design



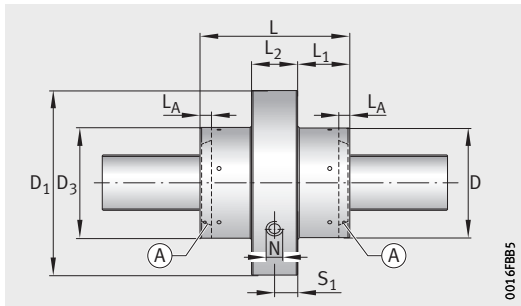
RGT-VTK, RGT-STK

Dimension table (continued) · Dimensions in mm

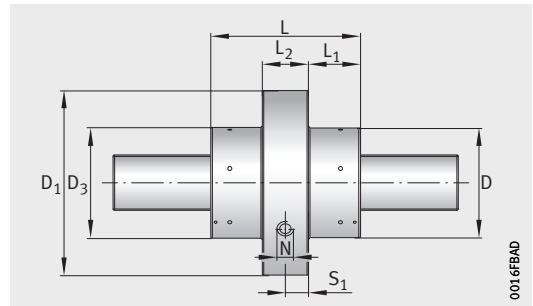
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
39	RGT-VTK-039.20 RGT-STK-039.20	20	5	A	–	3,8	80	124	80	72	–	19,5	33
				A	●	3,8				90	–	28,5	
				B	–	3,8				90	–	28,5	
		20	5	C	–	4,0	82	124	82	100	–	33,5	33
				C	●	4,0				100	–	33,5	
				D	–	4,0				100	–	33,5	
	RGT-VTK-039.30 RGT-STK-039.30	30	5	A	–	3,8	80	124	80	72	–	19,5	33
				A	●	3,8				90	–	28,5	
				B	–	3,8				90	–	28,5	
		30	5	C	–	4,0	82	124	82	100	–	33,5	33
				C	●	4,0				100	–	33,5	
				D	–	4,0				100	–	33,5	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

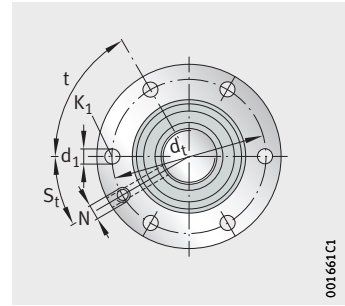


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C ₀ N			η_1	η_2		
102	60	11	M10	M6	16,5	30	135 700	159 800	24,6	240	0,85	0,83	4 200	0,07
							135 700	159 800	24,6					
							193 800	285 300	32,2					
102	60	11	M10	M6	16,5	30	179 500	252 500	30,4	240	0,85	0,83	4 200	0,07
							179 500	252 500	30,4					
							235 900	387 800	37,4					
102	60	11	M10	M6	16,5	30	136 800	149 800	18,0	300	0,79	0,74	4 200	0,07
							136 800	149 800	18,0					
							206 800	289 900	24,6					
102	60	11	M10	M6	16,5	30	183 900	241 000	22,5	300	0,79	0,74	4 200	0,07
							183 900	241 000	22,5					
							229 400	340 400	26,6					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

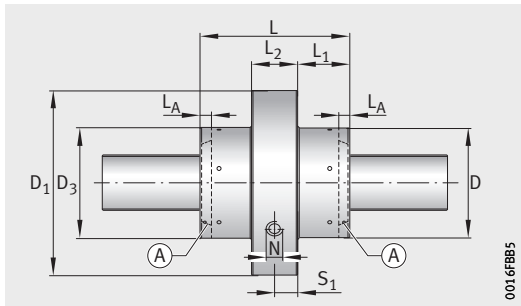
00169100

Dimension table (continued) · Dimensions in mm

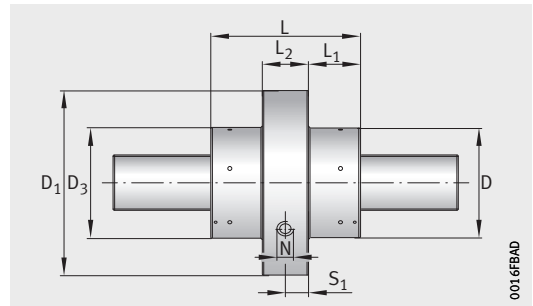
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃	L	L _A	L ₁	L ₂
44	RGT-VTK-044.12 RGT-STK-044.12	12	6	A	●	3,8	82	124	82	90	–	28,5	33
				B	–	3,8				90	–	28,5	
	RGT-VTK-044.24 RGT-STK-044.24	24	6	A	●	3,8	82	124	82	90	–	28,5	33
				B	–	3,8				90	–	28,5	
	RGT-VTK-044.30 RGT-STK-044.30	30	6	A	●	3,8	82	124	82	90	–	28,5	33
				B	–	3,8				90	–	28,5	
	RGT-VTK-044.36 RGT-STK-044.36	36	6	A	●	3,8	82	124	82	90	–	28,5	33
				B	–	3,8				90	–	28,5	
	RGT-VTK-044.42 RGT-STK-044.42	42	6	A	●	3,8	82	124	82	90	–	28,5	33
				B	–	3,8				90	–	28,5	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

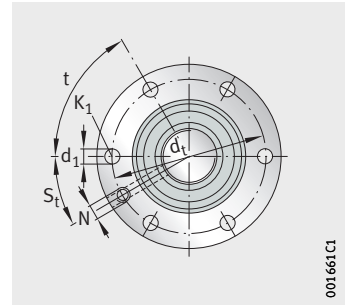


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
102	60	11	M10	M6	16,5	30	132 900	207 000	46,0	180	0,86	0,83	4 100	0,04
							164 900	292 800	54,1					
102	60	11	M10	M6	16,5	30	138 000	179 300	26,8	280	0,85	0,82	4 100	0,07
							182 600	280 100	33,1					
102	60	11	M10	M6	16,5	30	155 300	206 000	24,5	320	0,82	0,78	4 100	0,07
							193 700	291 200	29,0					
102	60	11	M10	M6	16,5	30	139 400	168 100	19,6	360	0,77	0,71	4 100	0,07
							187 500	267 400	24,5					
102	60	11	M10	M6	16,5	30	162 500	210 500	19,6	400	0,71	0,59	4 100	0,07
							190 700	269 600	22,1					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

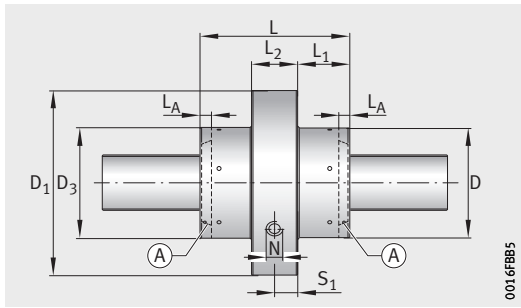
1319100

Dimension table (continued) · Dimensions in mm

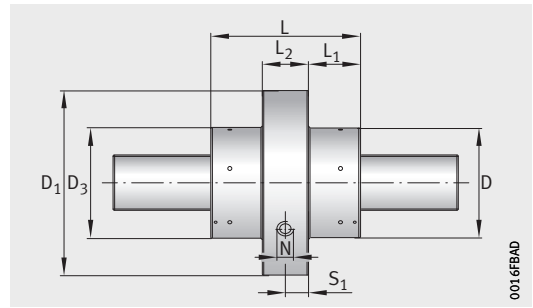
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
48	RGT-VTK-048.05 RGT-STK-048.05	5	5	A	–	5,5	96	150	96	95	–	29	37
				A	●	6,0				113	–	38	
				B	–	6,0				113	–	38	
		5	5	C	–	7,6	105	150	105	127	–	45	37
				C	●	7,6				127	–	45	
				D	–	7,6				127	–	45	
	RGT-VTK-048.10 RGT-STK-048.10	10	5	A	–	5,5	96	150	96	95	–	29	37
				A	●	6,0				113	–	38	
				B	–	6,0				113	–	38	
		10	5	C	–	7,6	105	150	105	127	–	45	37
				C	●	7,6				127	–	45	
				D	–	7,6				127	–	45	
RGT-VTK-048.20 RGT-STK-048.20	20	5	A	–	5,5	96	150	96	95	–	29	37	
			A	●	6,0				113	–	38		
			B	–	6,0				113	–	38		
	20	5	C	–	7,6	105	150	105	127	–	45	37	
			C	●	7,6				127	–	45		
			D	–	7,6				127	–	45		

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

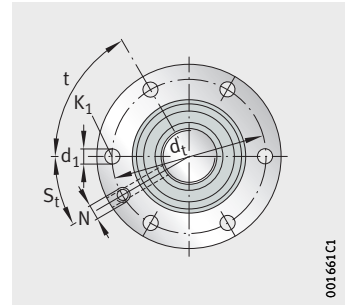


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C ₀ N			η_1	η_2		
127	60	13	M12	M8×1	18,5	30	165 300	349 300	89,8	180	0,76	0,69	3 800	0,02
							165 300	349 300	89,8					
							213 400	534 600	109,5					
127	60	13	M12	M8×1	18,5	30	202 900	492 200	105,3	180	0,76	0,69	3 800	0,02
							202 900	492 200	105,3					
							249 600	687 200	123,7					
127	60	13	M12	M8×1	18,5	30	188 900	332 800	55,1	200	0,84	0,81	3 800	0,02
							188 900	332 800	55,1					
							246 100	516 400	67,7					
127	60	13	M12	M8×1	18,5	30	233 600	474 300	65,0	200	0,84	0,81	3 800	0,02
							233 600	474 300	65,0					
							289 100	668 000	76,7					
127	60	13	M12	M8×1	18,5	30	214 300	319 500	33,8	280	0,86	0,84	3 800	0,07
							214 300	319 500	33,8					
							289 200	522 300	42,6					
127	60	13	M12	M8×1	18,5	30	274 500	480 300	40,9	280	0,86	0,84	3 800	0,07
							274 500	480 300	40,9					
							332 500	651 700	47,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

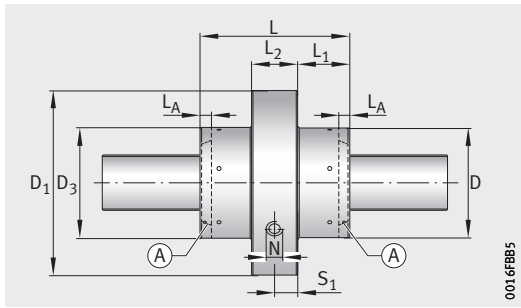
13196100

Dimension table (continued) · Dimensions in mm

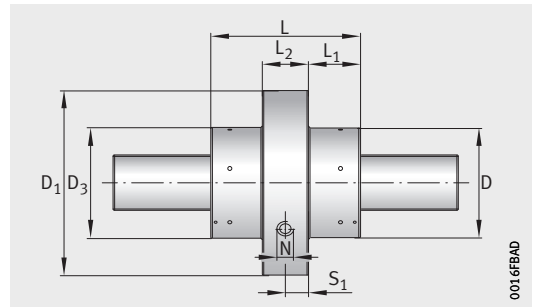
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
48	RGT-VTK-048.30 ⁴⁾ RGT-STK-048.30 ⁴⁾	30	5	A	–	5,5	96	150	96	95	–	29	37
				A	●	6,0				113	–	38	
				B	–	6,0				113	–	38	
		30	5	C	–	7,6	105	150	105	127	–	45	37
				C	●	7,6				127	–	45	
				D	–	7,6				127	–	45	
	RGT-VTK-048.40 RGT-STK-048.40	40	5	A	–	5,5	96	150	96	95	–	29	37
				A	●	6,0				113	–	38	
				B	–	6,0				113	–	38	
		40	5	C	–	7,6	105	150	105	127	–	45	37
				C	●	7,6				127	–	45	
				D	–	7,6				127	–	45	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.
- 4) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 162.



With wiper

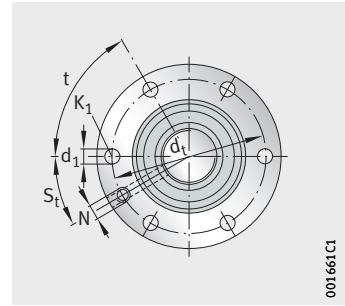


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
127	60	13	M12	M8×1	18,5	30	222 700	325 300	25,8	340	0,83	0,80	3 800	0,07
							222 700	325 300	25,8					
							292 900	506 900	31,9					
127	60	13	M12	M8×1	18,5	30	269 800	444 700	29,9	340	0,83	0,80	3 800	0,07
							269 800	444 700	29,9					
							338 100	635 400	35,7					
127	60	13	M12	M8×1	18,5	30	221 300	330 900	21,3	420	0,77	0,69	3 800	0,07
							221 300	330 900	21,3					
							283 400	491 600	25,8					
127	60	13	M12	M8×1	18,5	30	283 400	491 600	25,8	420	0,77	0,69	3 800	0,07
							283 400	491 600	25,8					
							343 300	662 700	29,9					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

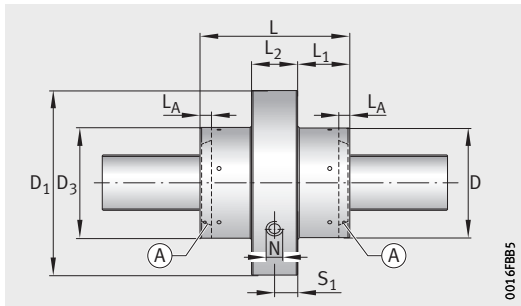
13196100

Dimension table (continued) · Dimensions in mm

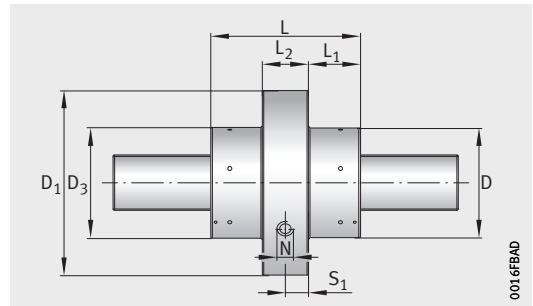
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
48	RGT-VTK-048.06 RGT-STK-048.06	6	6	A	–	4,5	86	122	86	94	–	29,5	35
				A	●	5,0				104		34,5	
	RGT-VTK-048.12 RGT-STK-048.12	12	6	A	–	4,5	86	122	86	94	–	29,5	35
				A	●	5,0				104		34,5	
	RGT-VTK-048.18 RGT-STK-048.18	18	6	A	–	4,5	86	122	86	94	–	29,5	35
				A	●	5,0				104		34,5	
	RGT-VTK-048.30⁴⁾ RGT-STK-048.30⁴⁾	30	6	A	–	4,5	86	122	86	94	–	29,5	35
				A	●	5,0				104		34,5	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.
- 4) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 160.



With wiper

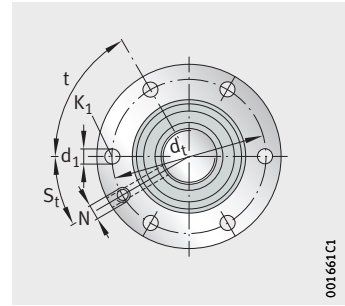


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
104	45	11	M10	M8×1	17,5	22,5	147 200	333 900	91,1	200	0,79	0,73	3 800	0,04
							147 200	333 900	91,1					
104	45	11	M10	M8×1	17,5	22,5	170 800	327 000	56,6	250	0,85	0,83	3 800	0,07
							170 800	327 000	56,6					
104	45	11	M10	M8×1	17,5	22,5	187 600	329 700	43,2	280	0,86	0,84	3 800	0,07
							187 600	329 700	43,2					
104	45	11	M10	M8×1	17,5	22,5	197 900	306 600	29,4	380	0,83	0,80	3 800	0,07
							197 900	306 600	29,4					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

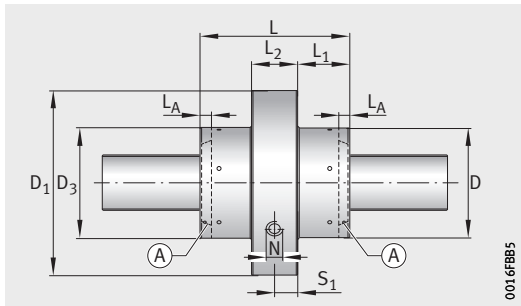
119100

Dimension table (continued) · Dimensions in mm

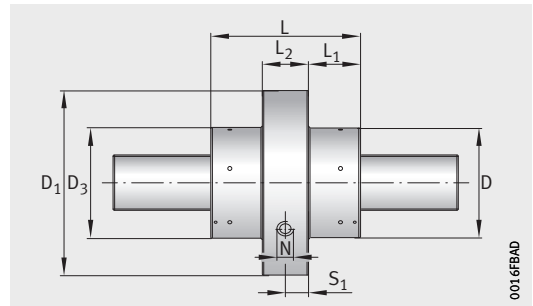
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
56	RGT-VTK-056.12 RGT-STK-056.12	12	6	A	●	6,8	105	150	105	112	–	37,5	37
				B	–	6,8				112	–	37,5	
	RGT-VTK-056.24 RGT-STK-056.24	24	6	A	●	6,8	105	150	105	112	–	37,5	37
				B	–	6,8				112	–	37,5	
	RGT-VTK-056.30 RGT-STK-056.30	30	6	A	●	6,8	105	150	105	112	–	37,5	37
				B	–	6,8				112	–	37,5	
	RGT-VTK-056.36 RGT-STK-056.36	36	6	A	●	6,8	105	150	105	112	–	37,5	37
				B	–	6,8				112	–	37,5	

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTK.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

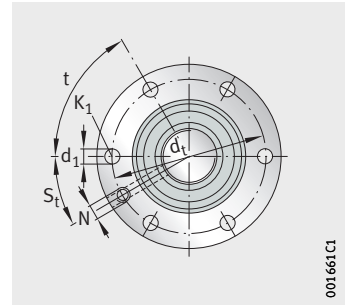


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
127	60	13	M12	M8×1	18,5	30	195 300	335 400	56,7	320	0,84	0,81	3 500	0,04
							261 200	534 700	70,6					
127	60	13	M12	M8×1	18,5	30	217 600	320 800	34,7	400	0,86	0,84	3 500	0,07
							302 500	540 900	44,5					
127	60	13	M12	M8×1	18,5	30	231 700	334 400	30,3	480	0,85	0,82	3 500	0,07
							320 300	555 400	38,7					
127	60	13	M12	M8×1	18,5	30	220 900	306 300	25,6	560	0,83	0,79	3 500	0,07
							302 400	501 300	32,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

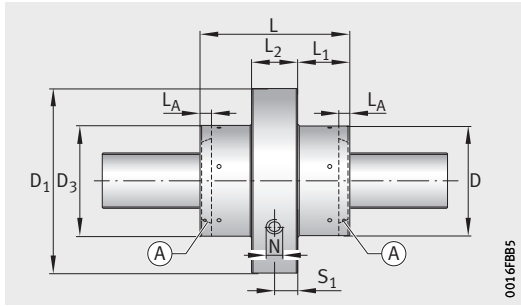
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Dimension table (continued) · Dimensions in mm

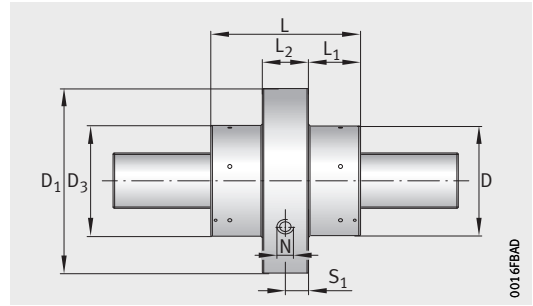
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions							
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂	
63	RGT-VTK-063.05 RGT-STK-063.05	5	5	A	–	10,7	118	180	118	115	–	35,0	45	
				A	●	11,6	118		118	133	–	44,0		
		5	5	C	–	13,0	122	180	122	152	–	53,5	45	
				C	●	13,0	122		122	152	–	53,5		
				D	–	13,4	122		122	152	–	53,5		
				D	–	13,4	122		122	152	–	53,5		
		RGT-VTK-063.10 ³⁾ RGT-STK-063.10 ³⁾	10	5	A	–	10,7	118	180	118	115	–	35,0	45
					A	●	11,6	118		118	133	–	44,0	
	10		5	C	–	13,0	122	180	122	152	–	53,5	45	
				C	●	13,0	122		122	152	–	53,5		
				D	–	13,4	122		122	152	–	53,5		
				D	–	13,4	122		122	152	–	53,5		
	RGT-VTK-063.15 RGT-STK-063.15		15	5	A	–	10,7	118	180	118	115	–	35,0	45
					A	●	11,6	118		118	133	–	44,0	
		15	5	C	–	13,0	122	180	122	152	–	53,5	45	
				C	●	13,0	122		122	152	–	53,5		
				D	–	13,4	122		122	152	–	53,5		
				D	–	13,4	122		122	152	–	53,5		
		RGT-VTK-063.20 RGT-STK-063.20	20	5	A	–	10,7	118	180	118	115	–	35,0	45
					A	●	11,6	118		118	133	–	44,0	
	20		5	C	–	13,0	122	180	122	152	–	53,5	45	
				C	●	13,0	122		122	152	–	53,5		
				D	–	13,4	122		122	152	–	53,5		
				D	–	13,4	122		122	152	–	53,5		
RGT-VTK-063.30 RGT-STK-063.30	30		5	A	–	10,7	118	180	118	115	–	35,0	45	
				A	●	11,6	118		118	133	–	44,0		
	30	5	C	–	13,0	122	180	122	152	–	53,5	45		
			C	●	13,0	122		122	152	–	53,5			
			D	–	13,4	122		122	152	–	53,5			
			D	–	13,4	122		122	152	–	53,5			

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STK.
- 3) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 170.



With wiper

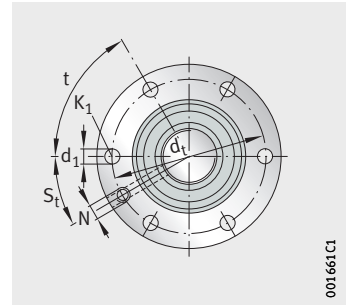


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
150	60	17,5	M16	M8×1	22,5	30	248 700	508 400	105,1	-	0,72	0,61	3 000	0,02
							248 700	508 400	105,1					
150	60	17,5	M16	M8×1	22,5	30	315 800	756 100	126,0	-	0,72	0,61	3 000	0,02
							315 800	756 100	126,0					
							380 800	1 020 500	145,2					
150	60	17,5	M16	M8×1	22,5	30	286 100	500 000	65,5	-	0,82	0,78	3 000	0,04
							286 100	500 000	65,5					
150	60	17,5	M16	M8×1	22,5	30	368 500	760 100	79,4	-	0,82	0,78	3 000	0,04
							368 500	760 100	79,4					
							440 600	1 010 200	90,9					
150	60	17,5	M16	M8×1	22,5	30	312 800	504 100	50,0	-	0,85	0,82	3 000	0,07
							312 800	504 100	50,0					
150	60	17,5	M16	M8×1	22,5	30	394 000	737 200	59,6	-	0,85	0,82	3 000	0,07
							394 000	737 200	59,6					
							486 000	1 028 300	69,8					
150	60	17,5	M16	M8×1	22,5	30	326 200	508 000	41,3	-	0,86	0,84	3 000	0,07
							326 200	508 000	41,3					
150	60	17,5	M16	M8×1	22,5	30	401 600	714 400	48,3	-	0,86	0,84	3 000	0,07
							401 600	714 400	48,3					
							493 200	989 600	56,5					
150	60	17,5	M16	M8×1	22,5	30	326 700	515 800	31,5	-	0,86	0,83	3 000	0,07
							326 700	515 800	31,5					
150	60	17,5	M16	M8×1	22,5	30	411 600	748 900	37,5	-	0,86	0,83	3 000	0,07
							411 600	748 900	37,5					
							494 100	997 100	43,1					

Roller screw drives

Flanged nut, single-piece
Standard design



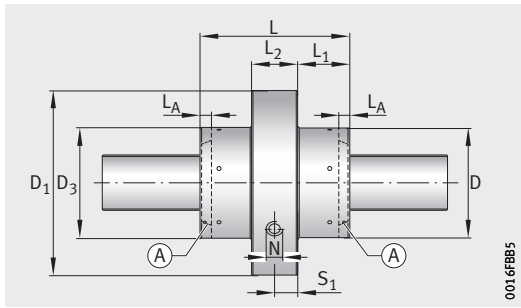
RGT-VTK, RGT-STK

Dimension table (continued) · Dimensions in mm

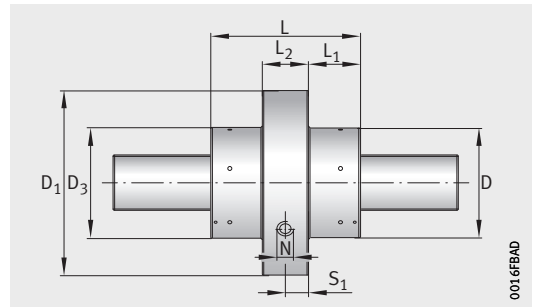
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
63	RGT-VTK-063.40 RGT-STK-063.40	40	5	A	–	10,7	118	180	118	115	–	35,0	45
				A	●	11,6	118		118	133	–	44,0	
		40	5	C	–	13,0	122	180	122	152	–	53,5	45
				C	●	13,0	122		122	152	–	53,5	
				D	–	13,4	122		122	152	–	53,5	
				D	–	13,4	122		122	152	–	53,5	
	RGT-VTK-063.45 RGT-STK-063.45	45	5	A	–	10,7	118	180	118	115	–	35,0	45
				A	●	11,6	118		118	133	–	44,0	
		45	5	C	–	13,0	122	180	122	152	–	53,5	45
				C	●	13,0	122		122	152	–	53,5	
				D	–	13,4	122		122	152	–	53,5	
				D	–	13,4	122		122	152	–	53,5	

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

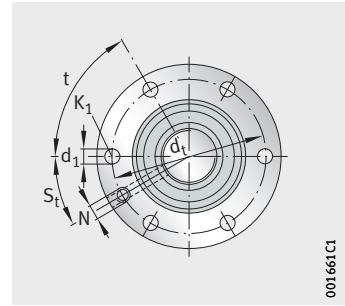


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
150	60	17,5	M16	M8×1	22,5	30	306 200	474 200	24,8	-	0,83	0,80	3 000	0,07
							306 200	474 200	24,8					
150	60	17,5	M16	M8×1	22,5	30	381 900	676 800	29,4	-	0,83	0,80	3 000	0,07
							381 900	676 800	29,4					
							492 000	1 004 500	35,6					
150	60	17,5	M16	M8×1	22,5	30	295 400	453 700	22,4	-	0,81	0,76	3 000	0,07
							295 400	453 700	22,4					
150	60	17,5	M16	M8×1	22,5	30	380 400	680 500	27,1	-	0,81	0,76	3 000	0,07
							380 400	680 500	27,1					
							463 000	624 100	31,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

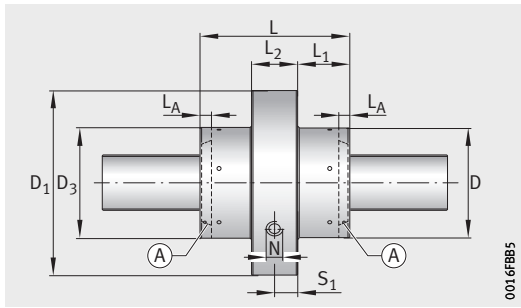
119166100

Dimension table (continued) - Dimensions in mm

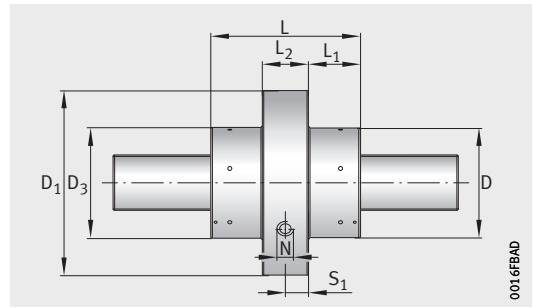
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
63	RGT-VTK-063.10 ³⁾ RGT-STK-063.10 ³⁾	10	6	A	-	10,2	115	180	115	111	-	36,5	40
				A	●	11,6	120		120	129	-	39,0	
				B	-	11,6	120		120	129	-	39,0	
	RGT-VTK-063.12 RGT-STK-063.12	12	6	A	-	10,2	115	180	115	111	-	36,5	40
				A	●	11,6	120		120	129	-	39,0	
				B	-	11,6	120		120	129	-	39,0	
	RGT-VTK-063.18 RGT-STK-063.18	18	6	A	-	10,2	115	180	115	111	-	36,5	40
				A	●	11,6	120		120	129	-	39,0	
				B	-	11,6	120		120	129	-	39,0	
	RGT-VTK-063.24 RGT-STK-063.24	24	6	A	-	10,2	115	180	115	111	-	36,5	40
				A	●	11,6	120		120	129	-	39,0	
				B	-	11,6	120		120	129	-	39,0	

Ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STK.
- 3) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 166.



With wiper

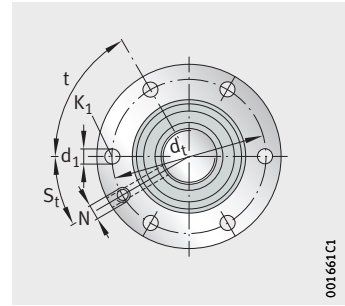


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
150	60	17,5	M16	M8×1	20	30	263 700	543 200	79,9	-	0,82	0,78	3 000	0,04
							263 700	543 200	79,9					
							319 400	735 500	92,4					
150	60	17,5	M16	M8×1	20	30	275 900	548 600	71,0	-	0,83	0,80	3 000	0,07
							275 900	548 600	71,0					
							330 000	728 000	81,3					
150	60	17,5	M16	M8×1	20	30	292 700	527 300	53,0	-	0,86	0,83	3 000	0,07
							292 700	527 300	53,0					
							356 300	718 400	61,5					
150	60	17,5	M16	M8×1	20	30	311 000	530 900	43,8	-	0,86	0,84	3 000	0,07
							311 000	530 900	43,8					
							365 100	682 900	49,4					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

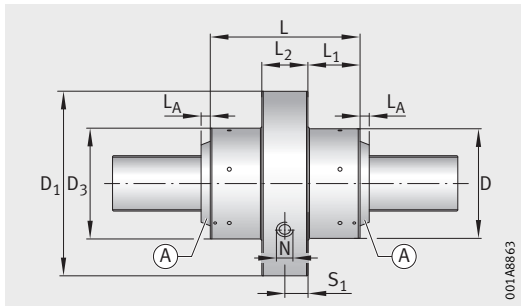
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Dimension table (continued) · Dimensions in mm

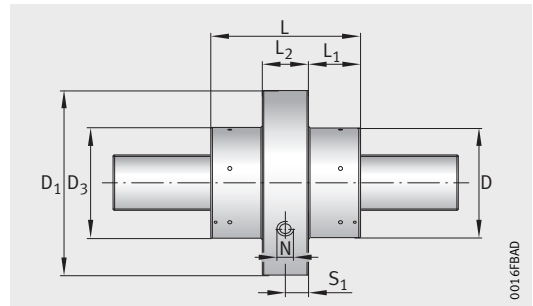
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions						
							D g6	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
78	RGT-VTK-078.05 RGT-STK-078.05	5	6	A	●	22	150	210	150	178	–	66,5	45
				B	●	23				191	4	73,0	
		5	6	C	–	26	150	210	150	215	–	85,0	45
				A	●	22	150	210	150	178	–	66,5	45
	B	●	23	191	4	73,0							
	RGT-VTK-078.10 RGT-STK-078.10	10	6	C	–	26	150	210	150	215	–	85,0	45
				A	●	22	150	210	150	178	–	66,5	45
	B	●	23	191	4	73,0							
	RGT-VTK-078.15 RGT-STK-078.15	15	6	C	–	26	150	210	150	215	–	85,0	45
				A	●	22	150	210	150	178	–	66,5	45
	B	●	23	191	4	73,0							
	RGT-VTK-078.20 RGT-STK-078.20	20	6	C	–	26	150	210	150	215	–	85,0	45
				A	●	22	150	210	150	178	–	66,5	45
	B	●	23	191	4	73,0							
	RGT-VTK-078.30 RGT-STK-078.30	30	6	C	–	26	150	210	150	215	–	85,0	45
				A	●	22	150	210	150	178	–	66,5	45
	B	●	23	191	4	73,0							
	RGT-VTK-078.36 RGT-STK-078.36	36	6	C	–	26	150	210	150	215	–	85,0	45
				A	●	22	150	210	150	178	–	66,5	45
	B	●	23	191	4	73,0							
	RGT-VTK-078.42 RGT-STK-078.42	42	6	C	–	26	150	210	150	215	–	85,0	45
				A	●	22	150	210	150	178	–	66,5	45
	B	●	23	191	4	73,0							
		42	6	C	–	26	150	210	150	215	–	85,0	45

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

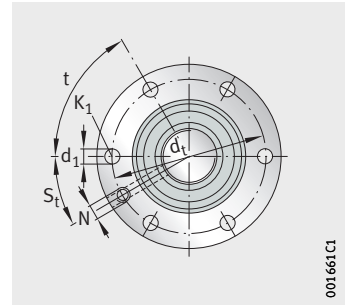


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
180	45	17,5	M16	M8×1	22,5	22,5	358 800	1 371 100	194,9	-	0,68	0,53	2 000	0,02
							417 300	1 739 400	219,8					
180	45	17,5	M16	M8×1	22,5	22,5	495 800	2 263 700	252,0	-	0,68	0,53	2 000	0,02
180	45	17,5	M16	M8×1	22,5	22,5	430 800	1 374 600	122,8	-	0,79	0,74	2 000	0,04
							501 000	1 742 700	138,4					
180	45	17,5	M16	M8×1	22,5	22,5	595 300	2 266 800	158,7	-	0,79	0,74	2 000	0,04
180	45	17,5	M16	M8×1	22,5	22,5	479 000	1 378 100	93,7	-	0,83	0,80	2 000	0,07
							551 200	1 717 400	104,8					
180	45	17,5	M16	M8×1	22,5	22,5	656 200	2 240 400	120,3	-	0,83	0,80	2 000	0,07
180	45	17,5	M16	M8×1	22,5	22,5	502 800	1 326 000	75,8	-	0,85	0,83	2 000	0,07
							593 700	1 720 700	86,5					
180	45	17,5	M16	M8×1	22,5	22,5	706 800	2 243 400	99,3	-	0,85	0,83	2 000	0,07
180	45	17,5	M16	M8×1	22,5	22,5	522 800	1 305 300	57,2	-	0,86	0,84	2 000	0,07
							625 500	1 727 200	66,0					
180	45	17,5	M16	M8×1	22,5	22,5	744 700	2 249 400	75,8	-	0,86	0,84	2 000	0,07
180	45	17,5	M16	M8×1	22,5	22,5	539 400	1 359 200	51,6	-	0,86	0,84	2 000	0,07
							613 900	1 662 600	57,2					
180	45	17,5	M16	M8×1	22,5	22,5	734 600	2 182 600	66,0	-	0,86	0,84	2 000	0,07
180	45	17,5	M16	M8×1	22,5	22,5	529 400	1 313 500	45,7	-	0,85	0,82	2 000	0,07
							617 000	1 666 400	51,6					
180	45	17,5	M16	M8×1	22,5	22,5	730 300	2 151 000	59,0	-	0,85	0,82	2 000	0,07

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

1319100

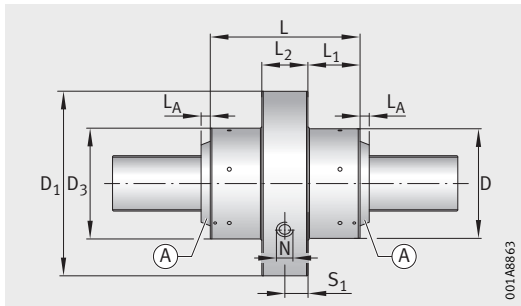
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
90	RGT-VTK-090.10 RGT-STK-090.10	10	6	A	●	38	175	250	175	245	7	97,5	50
				B	●	41				275	7	112,5	
	RGT-VTK-090.15 RGT-STK-090.15	15	6	A	●	38	175	250	175	245	7	97,5	50
				B	●	41				275	7	112,5	
				C	–	42				175	250	175	
	RGT-VTK-090.20 RGT-STK-090.20	20	6	A	●	38	175	250	175	245	7	97,5	50
				B	●	41				275	7	112,5	
				C	–	42				175	250	175	
	RGT-VTK-090.25 RGT-STK-090.25	25	6	A	●	38	175	250	175	245	7	97,5	50
				B	●	41				275	7	112,5	
				C	–	42				175	250	175	

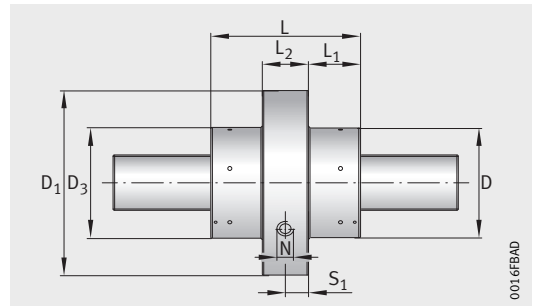
⊙ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

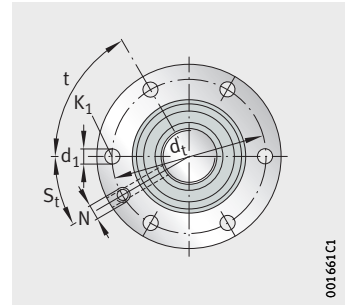


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
210	45	17,5	M16	M8×1	25	22,5	708 700	2 816 000	173,5	-	0,77	0,71	1700	0,04
							808 400	3 429 800	192,7					
210	45	17,5	M16	M8×1	25	22,5	852 000	3 705 600	200,9	-	0,77	0,71	1700	0,04
210	45	17,5	M16	M8×1	25	22,5	782 000	2 785 800	131,6	-	0,82	0,78	1700	0,07
							893 100	3 398 800	146,2					
210	45	17,5	M16	M8×1	25	22,5	947 700	3 708 900	153,3	-	0,82	0,78	1700	0,07
210	45	17,5	M16	M8×1	25	22,5	849 400	2 823 200	109,3	-	0,85	0,82	1700	0,07
							969 000	3 436 500	121,4					
210	45	17,5	M16	M8×1	25	22,5	1 021 300	3 712 100	126,5	-	0,85	0,82	1700	0,07
210	45	17,5	M16	M8×1	25	22,5	855 800	2 793 000	93,6	-	0,86	0,83	1700	0,07
							974 100	3 388 300	103,8					
210	45	17,5	M16	M8×1	25	22,5	1 023 900	3 646 300	107,9	-	0,86	0,83	1700	0,07

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

1319100

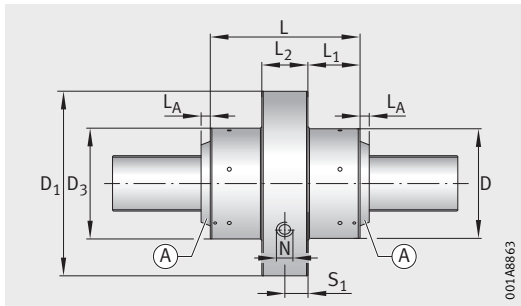
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
100	RGT-VTK-100.10 RGT-STK-100.10	10	5	A	●	49	200	275	200	260	10	102,5	55
				B	–	51				260	–	102,5	
	RGT-VTK-100.20 RGT-STK-100.20	20	5	A	●	49	200	275	200	260	10	102,5	55
				B	–	51				260	–	102,5	
	RGT-VTK-100.25 RGT-STK-100.25	25	5	A	●	49	200	275	200	260	10	102,5	55
				B	–	51				260	–	102,5	
	RGT-VTK-100.50 RGT-STK-100.50	50	5	A	●	49	200	275	200	260	10	102,5	55
				B	–	51				260	–	102,5	
	RGT-VTK-100.12 RGT-STK-100.12	12	6	A	●	29	180	255	180	195	10	72,5	50
				B	–	31				195	–	72,5	
	RGT-VTK-100.18 RGT-STK-100.18	18	6	A	●	29	180	255	180	195	10	72,5	50
				B	–	31				195	–	72,5	
	RGT-VTK-100.24 RGT-STK-100.24	24	6	A	●	29	180	255	180	195	10	72,5	50
				B	–	31				195	–	72,5	

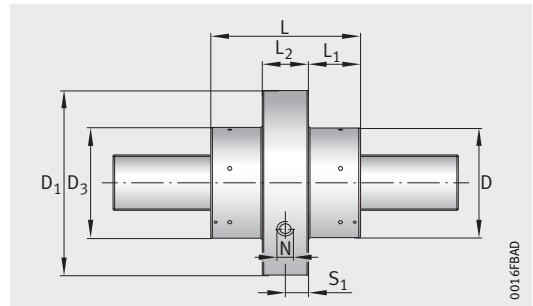
⊙ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

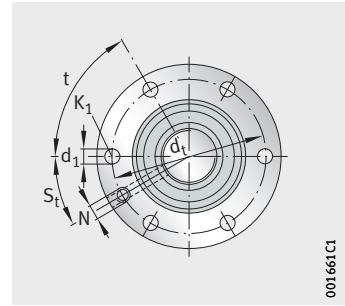


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_v Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
245	30	17,5	M16	M8×1	27,5	15	1 124 300	3 436 100	142,8	-	0,76	0,68	1 600	0,04
							1 245 600	4 042 800	154,6					
245	30	17,5	M16	M8×1	27,5	15	1 119 600	3 273 600	87,7	-	0,84	0,81	1 600	0,07
							1 245 200	3 875 300	95,2					
245	30	17,5	M16	M8×1	27,5	15	1 116 400	3 222 400	74,9	-	0,85	0,83	1 600	0,07
							1 243 200	3 822 300	81,4					
245	30	17,5	M16	M8×1	27,5	15	1 137 200	3 262 100	47,2	-	0,85	0,83	1 600	0,07
							1 266 500	3 861 100	51,3					
220	30	17,5	M16	M8×1	25,0	15	635 600	1 665 800	105,4	-	0,78	0,72	1 600	0,04
							772 200	2 308 700	123,1					
220	30	17,5	M16	M8×1	25,0	15	656 900	1 621 800	79,3	-	0,83	0,79	1 600	0,07
							818 900	2 343 800	94,5					
220	30	17,5	M16	M8×1	25,0	15	655 700	1 578 100	64,5	-	0,85	0,82	1 600	0,07
							826 900	2 323 700	77,5					

Roller screw drives

Flanged nut, single-piece
Standard design



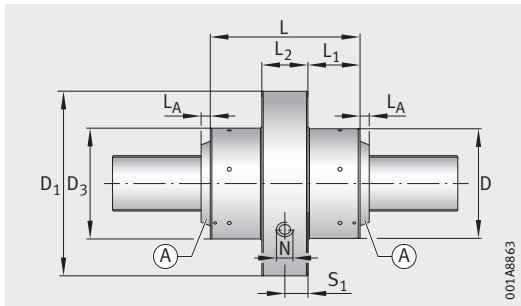
RGT-VTK, RGT-STK

Dimension table (continued) · Dimensions in mm

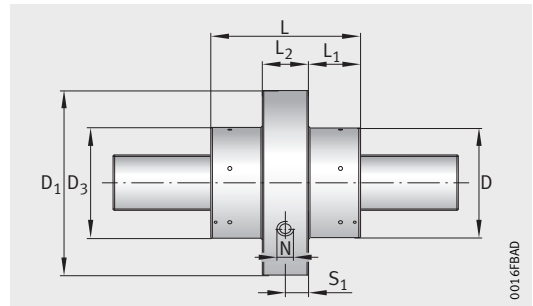
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
120	RGT-VTK-120.20 RGT-STK-120.20	20	5	A	●	87	260	340	260	280	12	112,5	55
				B	–	90				280	–	112,5	
		20	5	C	–	102	260	340	260	330	–	137,5	55
	RGT-VTK-120.25 RGT-STK-120.25	25	5	A	●	87	260	340	260	280	12	112,5	55
				B	–	90				280	–	112,5	
		25	5	C	–	102	260	340	260	330	–	137,5	55
135	RGT-VTK-135.15 RGT-STK-135.15	15	5	A	●	124	280	370	280	370	12	155,0	60
	RGT-VTK-135.20 RGT-STK-135.20	20	5	A	●	124	280	370	280	370	12	155,0	60
	RGT-VTK-135.30 RGT-STK-135.30	30	5	A	●	124	280	370	280	370	12	155,0	60
150	RGT-VTK-150.25 RGT-STK-150.25	25	5	A	●	185	320	410	320	412	12	166,0	80
	RGT-VTK-150.30 RGT-STK-150.30	30	5	A	●	185	320	410	320	412	12	166,0	80
	RGT-VTK-150.40 RGT-STK-150.40	40	5	A	●	185	320	410	320	412	12	166,0	80

⊗ Wipers: ● with wiper.

- ¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- ²⁾ Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

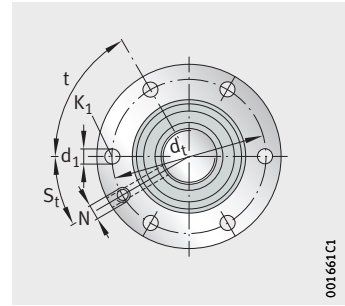


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Fric-tional torque M_V Ncm	Theoretical efficiency		Lim-iting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
305	30	17,5	M16	M12×1,75	27,5	15	1 196 500	3 942 600	94,4	-	0,82	0,78	1 300	0,07
							1 320 900	4 648 900	102,1					
305	30	17,5	M16	M12×1,75	27,5	15	1 515 600	5 815 500	113,9	-	0,82	0,78	1 300	0,07
305	30	17,5	M16	M12×1,75	27,5	15	1 212 700	3 952 700	81,4	-	0,84	0,81	1 300	0,07
							1 338 800	4 658 900	88,0					
305	30	17,5	M16	M12×1,75	27,5	15	1 523 900	5 751 100	97,5	-	0,84	0,81	1 300	0,07
315	30	22,0	M20	M12×1,75	30,0	15	1 843 300	8 036 300	159,5	-	0,77	0,71	1 200	0,07
315	30	22,0	M20	M12×1,75	30,0	15	1 883 100	8 089 200	132,0	-	0,81	0,76	1 200	0,07
315	30	22,0	M20	M12×1,75	30,0	15	1 904 400	7 941 800	99,7	-	0,85	0,82	1 200	0,07
365	30	26,0	M24	M12×1,75	30,0	15	2 071 300	9 086 700	118,6	-	0,82	0,78	1 000	0,07
365	30	26,0	M24	M12×1,75	40,0	15	2 087 600	9 052 400	104,8	-	0,84	0,81	1 000	0,07
365	30	26,0	M24	M12×1,75	40,0	15	2 122 600	9 076 300	86,5	-	0,86	0,83	1 000	0,07

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTK, RGT-STK

13196100

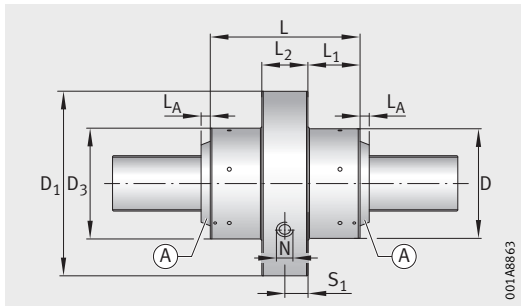
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions						
							D g6	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
180	RGT-VTK-180.20 RGT-STK-180.20	20	5	A	–	355	390	470	390	528	–	219	90
				B	●	373				558	15	234	
	RGT-VTK-180.24 RGT-STK-180.24	24	5	A	–	355	390	470	390	528	–	219	90
				B	●	373				558	15	234	
	RGT-VTK-180.25 RGT-STK-180.25	25	5	A	–	355	390	470	390	528	–	219	90
				B	●	373				558	15	234	
	RGT-VTK-180.30 RGT-STK-180.30	30	5	A	–	355	390	470	390	528	–	219	90
				B	●	373				558	15	234	
	RGT-VTK-180.40 RGT-STK-180.40	40	5	A	–	355	390	470	390	528	–	219	90
				B	●	373				558	15	234	
210	RGT-VTK-210.20 RGT-STK-210.20	20	5	A	●	476	440	530	440	570	20	225	100
				B	–	490				570	–	225	
	RGT-VTK-210.25 RGT-STK-210.25	25	5	A	●	476	440	530	440	570	20	225	100
				B	–	490				570	–	225	
	RGT-VTK-210.30 RGT-STK-210.30	30	5	A	●	476	440	530	440	570	20	225	100
				B	–	490				570	–	225	
	RGT-VTK-210.35 RGT-STK-210.35	35	5	A	●	476	440	530	440	570	20	225	100
				B	–	490				570	–	225	
245	RGT-VTK-245.30 RGT-STK-245.30	30	5	A	–	936	550	650	550	650	–	260	130
				B	–	1190				840	–	355	

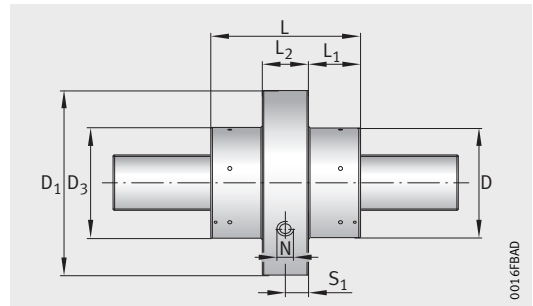
⊙ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Maximum axial clearance for non-preloaded nuts RGT-STK.



With wiper

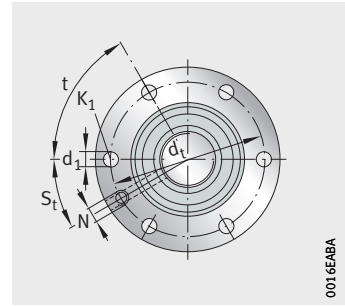


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
433	30	24	M22	M12×1,75	45	15	3 080 900	17 019 600	182,6	-	0,77	0,71	900	0,07
							3 187 300	17 942 900	187,6					
433	30	24	M22	M12×1,75	45	15	3 089 500	16 800 700	160,6	-	0,80	0,75	900	0,07
							3 218 800	17 907 400	165,9					
433	30	24	M22	M12×1,75	45	15	3 104 200	16 860 800	156,6	-	0,80	0,75	900	0,07
							3 239 100	18 014 200	161,9					
433	30	24	M22	M12×1,75	45	15	3 132 600	16 817 000	138,4	-	0,82	0,78	900	0,07
							3 255 500	17 854 100	142,7					
433	30	24	M22	M12×1,75	45	15	3 187 100	16 844 200	114,2	-	0,85	0,82	900	0,10
							3 298 200	17 765 300	117,4					
490	30	26	M24	M12×1,75	50	15	3 482 500	17 564 800	172,9	-	0,75	0,67	700	0,07
							3 741 400	19 653 900	178,9					
490	30	26	M24	M12×1,75	50	15	3 532 800	17 711 400	149,0	-	0,78	0,72	700	0,07
							3 777 800	19 670 500	154,2					
490	30	26	M24	M12×1,75	50	15	3 527 300	17 469 300	131,5	-	0,81	0,76	700	0,07
							3 774 600	19 424 300	135,6					
490	30	26	M24	M12×1,75	50	15	3 533 400	17 357 000	118,6	-	0,82	0,78	700	0,10
							3 823 700	19 637 800	123,0					
600	15	22	M20	M12×1	65	7,5	4 405 100	27 802 400	219,1	-	0,79	0,73	500	0,10
							5 800 000	42 520 300	273,1					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

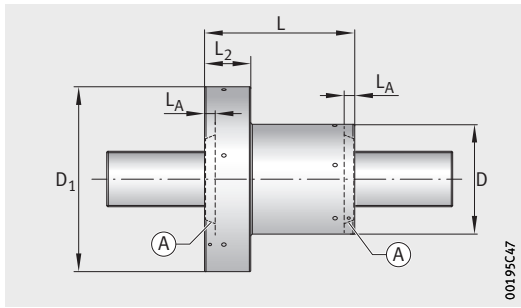
0016EABA

Dimension table · Dimensions in mm

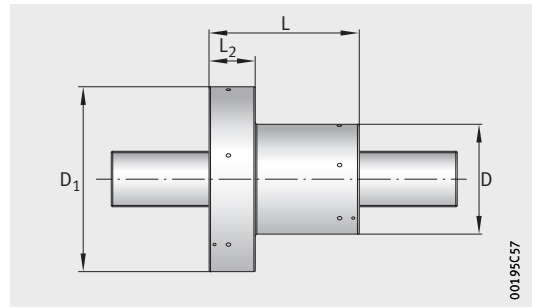
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
5	RGT-VTM-005.01 RGT-STM-005.01	1	3	A	–	0,2	19	40	31	–	12
				A	●	0,2			41	–	
				B	–	0,2			41	–	
	RGT-VTM-005.02 RGT-STM-005.02	2	3	A	–	0,2	19	40	31	–	12
				A	●	0,2			41	–	
				B	–	0,2			41	–	
	RGT-VTM-005.04 RGT-STM-005.04	4	3	A	–	0,2	19	40	31	–	12
				A	●	0,2			41	–	
				B	–	0,2			41	–	

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

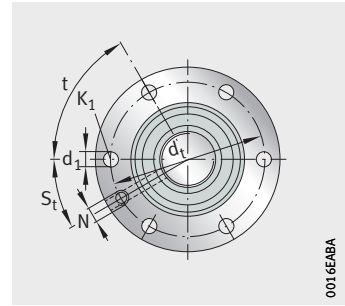


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
30	60	4,5	M4	M6	-	30	4 700	9 600	35,8	3	0,85	0,82	6 000	0,01
							4 700	9 600	35,8					
							7 400	20 600	51,2					
30	60	4,5	M4	M6	-	30	5 500	9 700	22,5	4	0,86	0,84	6 000	0,01
							5 500	9 700	22,5					
							8 700	20 700	32,3					
30	60	4,5	M4	M6	-	30	6 000	9 300	13,7	5	0,74	0,65	6 000	0,01
							6 000	9 300	13,7					
							9 900	20 900	20,3					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

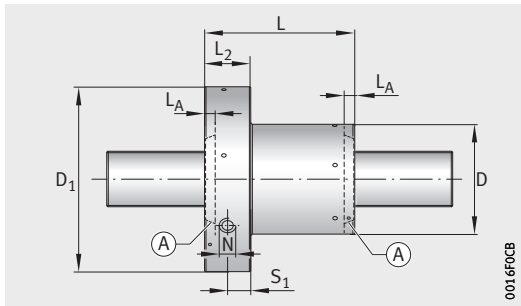
0016EABA

Dimension table (continued) · Dimensions in mm

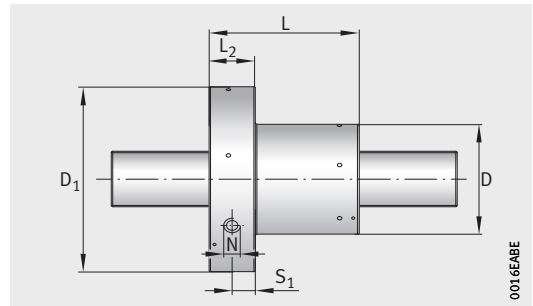
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
8	RGT-VTM-008.01 RGT-STM-008.01	1	4	A	–	0,2	21	41	31	–	16
				A	●	0,2			41	–	
				B	–	0,2			41	–	
		1	4	C	–	0,3	25	46	44	–	16
				C	●	0,3			44	–	
				D	–	0,3			44	–	
	RGT-VTM-008.02 RGT-STM-008.02	2	4	A	–	0,2	21	41	31	–	16
				A	●	0,2			41	–	
				B	–	0,2			41	–	
		2	4	C	–	0,3	25	46	44	–	16
				C	●	0,3			44	–	
				D	–	0,3			44	–	
	RGT-VTM-008.04 RGT-STM-008.04	4	4	A	–	0,2	21	41	31	–	16
				A	●	0,2			41	–	
				B	–	0,2			41	–	
		4	4	C	–	0,3	25	46	44	–	16
C				●	0,3	44			–		
D				–	0,3	44			–		
RGT-VTM-008.05 RGT-STM-008.05	5	4	A	–	0,2	21	41	31	–	16	
			A	●	0,2			41	–		
			B	–	0,2			41	–		
	5	4	C	–	0,3	25	46	44	–	16	
			C	●	0,3			44	–		
			D	–	0,3			44	–		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

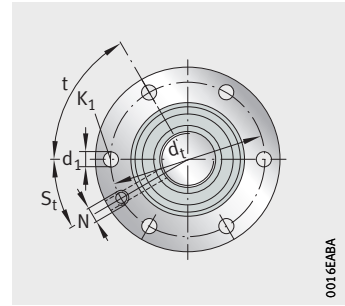


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
31	60	4,5	M4	M6	5	30	7 500	14 600	54,0	3	0,79	0,73	5 800	0,02
							7 500	14 600	54,0					
							12 000	30 800	77,3					
36	60	4,5	M4	M6	5	30	8 800	19 300	61,5	3	0,79	0,73	5 800	0,02
							8 800	19 300	61,5					
							13 300	36 000	83,7					
31	60	4,5	M4	M6	5	30	8 700	14 700	34,0	4	0,85	0,83	5 800	0,02
							8 700	14 700	34,0					
							14 000	30 900	48,7					
36	60	4,5	M4	M6	5	30	14 000	30 900	48,7	4	0,85	0,83	5 800	0,02
							10 300	19 400	38,7					
							15 500	36 100	52,7					
31	60	4,5	M4	M6	5	30	10 000	14 900	21,4	5	0,85	0,83	5 800	0,02
							10 000	14 900	21,4					
							16 100	31 100	30,7					
36	60	4,5	M4	M6	5	30	11 900	19 600	24,4	5	0,85	0,83	5 800	0,02
							11 900	19 600	24,4					
							17 900	36 300	33,2					
31	60	4,5	M4	M6	5	30	10 300	14 700	18,2	6	0,83	0,80	5 800	0,02
							10 300	14 700	18,2					
							16 600	30 800	26,3					
36	60	4,5	M4	M6	5	30	11 900	18 500	20,4	6	0,83	0,80	5 800	0,02
							11 900	18 500	20,4					
							18 200	35 100	28,1					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

0016EABA

Dimension table (continued) · Dimensions in mm

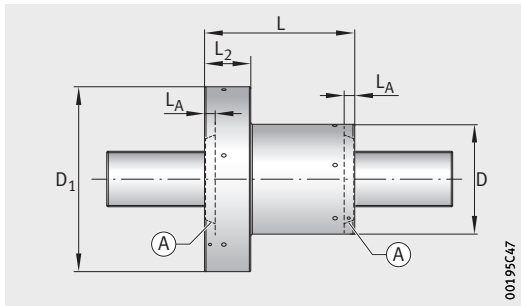
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions				
							D g6	D ₁	L h12	L _A	L ₂
12	RGT-VTM-012.01 RGT-STM-012.01	1	4	A	–	0,3	32	51	31	–	16
				A	●	0,3			41	–	
				B	–	0,3			41	–	
		1	4	C	–	0,3	32	51	44	–	16
				C	●	0,3			44	–	
				D	–	0,3			44	–	
	RGT-VTM-012.02 RGT-STM-012.02	2	5	A	–	0,3	30	51	31	–	16
				A	●	0,3			41	–	
				B	–	0,3			41	–	
		2	5	C	–	0,3	30	51	44	–	16
				C	●	0,3			44	–	
	RGT-VTM-012.04 RGT-STM-012.04	4	5	A	–	0,3	30	51	31	–	16
				A	●	0,3			41	–	
				B	–	0,3			41	–	
		4	5	C	–	0,3	30	51	44	–	16
				C	●	0,3			44	–	
RGT-VTM-012.05 RGT-STM-012.05	5	5	A	–	0,3	30	51	31	–	16	
			A	●	0,3			41	–		
			B	–	0,3			41	–		
	5	5	C	–	0,3	30	51	44	–	16	
			C	●	0,3			44	–		
RGT-VTM-012.10 RGT-STM-012.10	10	5	A	–	0,3	30	51	31	–	16	
			A	●	0,3			41	–		
			B	–	0,3			41	–		
	10	5	C	–	0,3	30	51	44	–	16	
			C	●	0,3			44	–		

⊙ Wipers: ● with wiper.

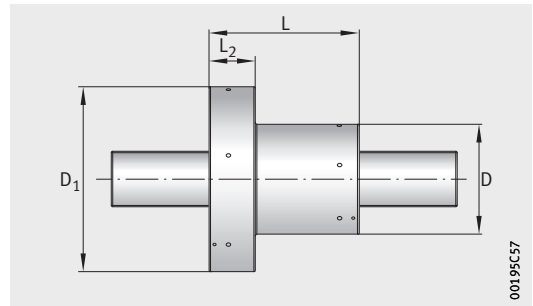
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTM.

3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

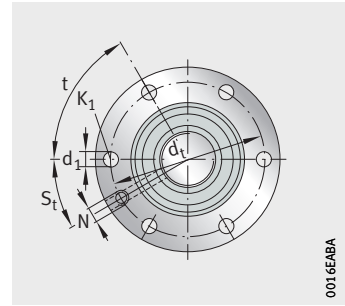


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
41	60	4,5	M4	M6	-	30	11 300	15 300	51,9	3	0,73	0,62	5 600	0,02
							11 300	15 300	51,9					
							18 900	36 000	76,5					
41	60	4,5	M4	M6	-	30	13 400	20 500	59,1	3	0,73	0,62	5 600	0,02
							13 400	20 500	59,1					
							20 200	40 100	80,5					
41	60	4,5	M4	M6	-	30	13 500	20 000	46,8	4	0,82	0,78	5 600	0,02
							13 500	20 000	46,8					
							24 000	48 700	72,2					
41	60	4,5	M4	M6	-	30	15 800	25 900	52,9	4	0,82	0,78	5 600	0,02
							15 800	25 900	52,9					
41	60	4,5	M4	M6	-	30	15 100	19 400	28,9	5	0,86	0,84	5 600	0,02
							15 100	19 400	28,9					
							27 300	48 000	45,0					
41	60	4,5	M4	M6	-	30	18 300	26 200	33,3	5	0,86	0,84	5 600	0,02
							18 300	26 200	33,3					
41	60	4,5	M4	M6	-	30	16 200	20 400	25,4	6	0,86	0,84	5 600	0,02
							16 200	20 400	25,4					
							29 100	49 500	39,4					
41	60	4,5	M4	M6	-	30	19 300	26 700	28,9	6	0,86	0,84	5 600	0,02
							19 300	26 700	28,9					
41	60	4,5	M4	M6	-	30	18 200	20 900	16,0	8	0,77	0,69	5 600	0,02
							18 200	20 900	16,0					
							31 600	47 700	24,2					
41	60	4,5	M4	M6	-	30	20 500	25 100	17,5	8	0,77	0,69	5 600	0,02
							20 500	25 100	17,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

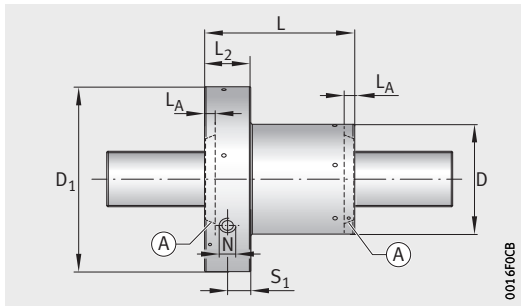
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Dimension table (continued) · Dimensions in mm

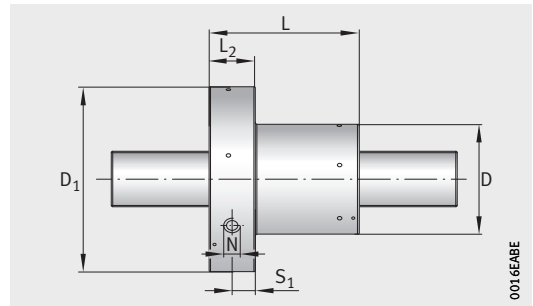
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
15	RGT-VTM-015.02 RGT-STM-015.02	2	5	A	–	0,4	34	58	35	–	18
				A	●	0,4			45	–	
				B	–	0,4			45	–	
		2	5	C	–	0,5	35	58	50	–	18
				C	●	0,5			50	–	
				D	–	0,5			50	–	
	RGT-VTM-015.04 RGT-STM-015.04	4	5	A	–	0,4	34	58	35	–	18
				A	●	0,4			45	–	
				B	–	0,4			45	–	
		4	5	C	–	0,5	35	58	50	–	18
				C	●	0,5			50	–	
				D	–	0,5			50	–	
	RGT-VTM-015.05 RGT-STM-015.05	5	5	A	–	0,4	34	58	35	–	18
				A	●	0,4			45	–	
				B	–	0,4			45	–	
		5	5	C	–	0,5	35	58	50	–	18
				C	●	0,5			50	–	
				D	–	0,5			50	–	
RGT-VTM-015.06 RGT-STM-015.06	6	5	A	–	0,4	34	58	35	–	18	
			A	●	0,4			45	–		
			B	–	0,4			45	–		
	6	5	C	–	0,5	35	58	50	–	18	
			C	●	0,5			50	–		
			D	–	0,5			50	–		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

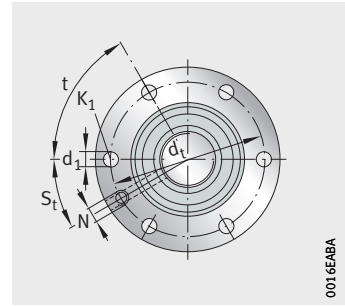


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_k $N^{2/3}/\mu m$	Fric- tional torque ²⁾ M_V Ncm	Theoretical efficiency		Lim- iting speed η_G min^{-1}	Axial clear- ance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
46	60	5,5	M5	M6	5	30	15 700	22 400	48,6	6	0,80	0,75	5 500	0,02
							15 700	22 400	48,6					
							25 400	48 600	69,6					
46	60	5,5	M5	M6	5	30	20 500	34 500	59,1	6	0,80	0,75	5 500	0,02
							20 500	34 500	59,1					
							29 900	62 300	78,6					
46	60	5,5	M5	M6	5	30	17 700	21 800	30,0	7	0,86	0,83	5 500	0,02
							17 700	21 800	30,0					
							29 400	48 900	43,8					
46	60	5,5	M5	M6	5	30	23 200	33 800	36,7	7	0,86	0,83	5 500	0,02
							23 200	33 800	36,7					
							34 600	62 600	49,5					
46	60	5,5	M5	M6	5	30	19 000	22 900	26,4	9	0,86	0,84	5 500	0,02
							19 000	22 900	26,4					
							30 800	49 100	37,8					
46	60	5,5	M5	M6	5	30	25 000	35 500	32,3	9	0,86	0,84	5 500	0,02
							25 000	35 500	32,3					
							36 400	63 300	42,9					
46	60	5,5	M5	M6	5	30	18 700	21 200	22,5	10	0,86	0,84	5 500	0,02
							18 700	21 200	22,5					
							31 900	49 200	33,5					
46	60	5,5	M5	M6	5	30	24 700	33 100	27,6	10	0,86	0,84	5 500	0,02
							24 700	33 100	27,6					
							37 500	62 800	37,8					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

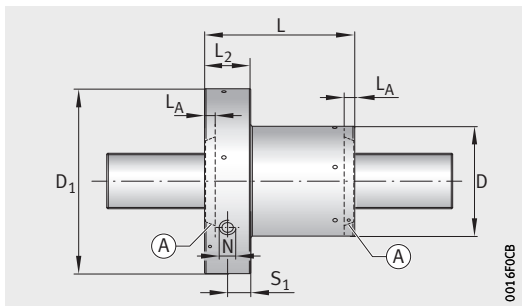
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Dimension table (continued) · Dimensions in mm

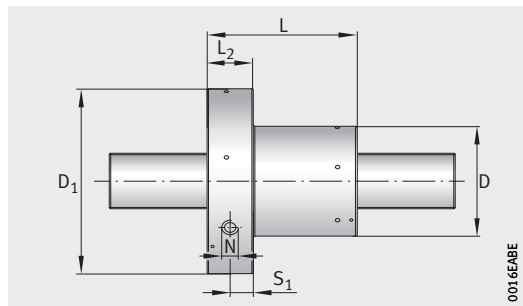
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions				
							D g6	D ₁	L h12	L _A	L ₂
15	RGT-VTM-015.08 RGT-STM-015.08	8	5	A	–	0,4	34	58	35	–	18
				A	●	0,4			45	–	
				B	–	0,4			45	–	
		8	5	C	–	0,5	35	58	50	–	18
				C	●	0,5			50	–	
				D	–	0,5			50	–	
	RGT-VTM-015.10 RGT-STM-015.10	10	5	A	–	0,4	34	58	35	–	18
				A	●	0,4			45	–	
				B	–	0,4			45	–	
		10	5	C	–	0,5	35	58	50	–	18
				C	●	0,5			50	–	
				D	–	0,5			50	–	

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

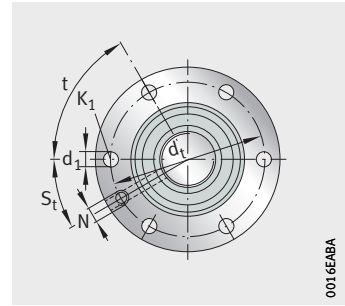


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
46	60	5,5	M5	M6	5	30	19 200	20 500	18,2	12	0,85	0,82	5 500	0,02
							19 200	20 500	18,2					
							31 600	45 100	26,4					
46	60	5,5	M5	M6	5	30	25 500	32 300	22,5	12	0,85	0,82	5 500	0,02
							25 500	32 300	22,5					
							37 600	58 500	30,0					
46	60	5,5	M5	M6	5	30	18 900	19 000	15,0	14	0,82	0,78	5 500	0,02
							18 900	19 000	15,0					
							32 300	44 300	22,5					
46	60	5,5	M5	M6	5	30	27 000	33 700	19,6	14	0,82	0,78	5 500	0,02
							27 000	33 700	19,6					
							40 100	61 100	26,4					

Roller screw drives

Flanged nut, single-piece
Standard design



0016EABA

RGT-VTM, RGT-STM

Dimension table (continued) · Dimensions in mm

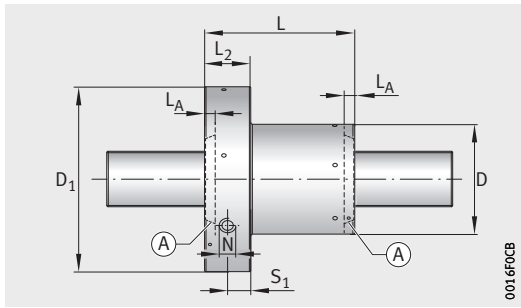
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions				
							D g6	D ₁	L h12	L _A	L ₂
20	RGT-VTM-020.02 RGT-STM-020.02	2	5	A	–	0,6	42	68	55	–	18
				A	●	0,7			65	–	
				B	–	0,7			65	–	
	RGT-VTM-020.04 RGT-STM-020.04	4	5	A	–	0,6	42	68	55	–	18
				A	●	0,7			65	–	
				B	–	0,7			65	–	
	RGT-VTM-020.05 RGT-STM-020.05	5	5	A	–	0,6	42	68	55	–	18
				A	●	0,7			65	–	
				B	–	0,7			65	–	
	RGT-VTM-020.06 RGT-STM-020.06	6	5	A	–	0,6	42	68	55	–	18
				A	●	0,7			65	–	
				B	–	0,7			65	–	
	RGT-VTM-020.10 RGT-STM-020.10	10	5	A	–	0,6	42	68	55	–	18
				A	●	0,7			65	–	
				B	–	0,7			65	–	
	RGT-VTM-020.12 RGT-STM-020.12	12	5	A	–	0,6	42	68	55	–	18
				A	●	0,7			65	–	
				B	–	0,7			65	–	
	RGT-VTM-020.20 RGT-STM-020.20	20	5	A	–	0,6	42	68	55	–	18
				A	●	0,7			65	–	
				B	–	0,7			65	–	

ⓐ Wipers: ● with wiper.

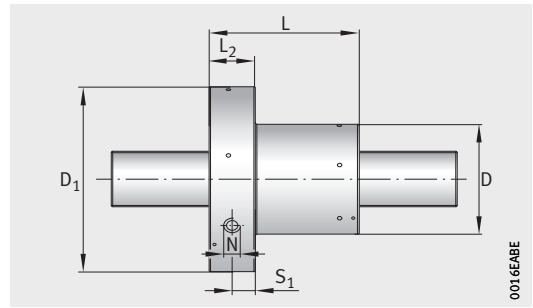
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTM.

3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

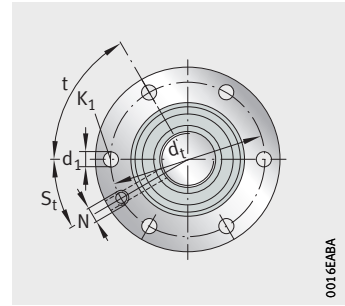


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed η_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
56	60	5,5	M5	M6	5	30	32 300	66 400	78,3	18	0,76	0,69	5 200	0,02
							32 300	66 400	78,3					
							42 700	102 700	96,7					
56	60	5,5	M5	M6	5	30	37 200	65 400	48,8	20	0,84	0,81	5 200	0,02
							37 200	65 400	48,8					
							49 800	103 100	60,9					
56	60	5,5	M5	M6	5	30	39 800	67 700	42,7	24	0,85	0,83	5 200	0,02
							39 800	67 700	42,7					
							52 500	104 000	52,7					
56	60	5,5	M5	M6	5	30	40 600	65 800	37,3	26	0,86	0,84	5 200	0,02
							40 600	65 800	37,3					
							53 300	100 500	45,8					
56	60	5,5	M5	M6	5	30	44 400	65 200	26,2	35	0,85	0,83	5 200	0,04
							44 400	65 200	26,2					
							59 100	101 200	32,6					
56	60	5,5	M5	M6	5	30	46 500	67 000	23,5	40	0,83	0,80	5 200	0,04
							46 500	67 000	23,5					
							61 100	101 600	28,9					
56	60	5,5	M5	M6	5	30	46 000	60 200	15,7	50	0,67	0,50	5 200	0,07
							46 000	60 200	15,7					
							65 700	103 000	20,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

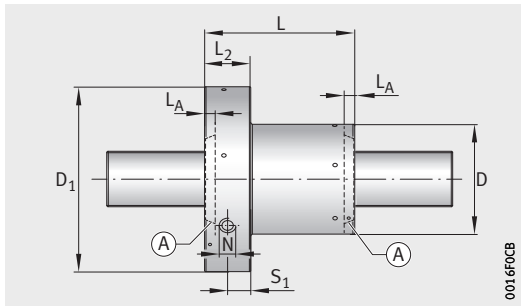
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Dimension table (continued) · Dimensions in mm

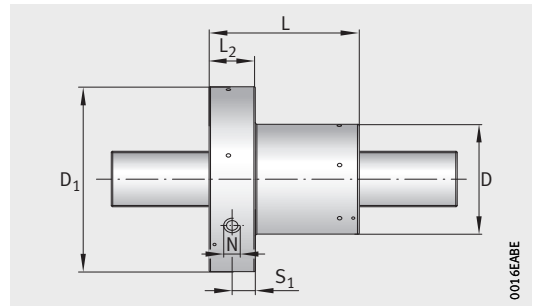
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
21	RGT-VTM-021.02 RGT-STM-021.02	2	5	A	●	0,7	45	68	64	–	18
				B	–	0,7			64	–	
	RGT-VTM-021.04 RGT-STM-021.04	4	5	A	●	0,7	45	68	64	–	18
				B	–	0,7			64	–	
	RGT-VTM-021.05 RGT-STM-021.05	5	5	A	●	0,7	45	68	64	–	18
				B	–	0,7			64	–	
	RGT-VTM-021.06 RGT-STM-021.06	6	5	A	●	0,7	45	68	64	–	18
				B	–	0,7			64	–	
	RGT-VTM-021.10 RGT-STM-021.10	10	5	A	●	0,7	45	68	64	–	18
				B	–	0,7			64	–	
	RGT-VTM-021.12 RGT-STM-021.12	12	5	A	●	0,7	45	68	64	–	18
				B	–	0,7			64	–	
	RGT-VTM-021.20 RGT-STM-021.20	20	5	A	●	0,7	45	68	64	–	18
				B	–	0,7			64	–	

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

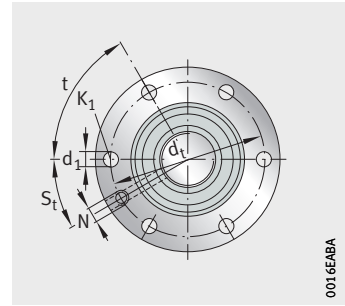


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
56	60	5,5	M5	M6	5	30	43 600	90 200	93,3	20	0,75	0,67	5 200	0,02
							56 800	137 600	114,4					
56	60	5,5	M5	M6	5	30	51 600	90 700	58,8	22	0,83	0,80	5 200	0,02
							66 500	136 100	71,6					
56	60	5,5	M5	M6	5	30	54 500	91 000	50,7	25	0,85	0,82	5 200	0,02
							70 800	138 300	62,1					
56	60	5,5	M5	M6	5	30	56 200	89 400	44,4	30	0,86	0,83	5 200	0,02
							72 600	134 700	54,2					
56	60	5,5	M5	M6	5	30	59 900	83 200	30,4	38	0,86	0,83	5 200	0,04
							79 200	129 900	37,7					
56	60	5,5	M5	M6	5	30	63 000	85 500	27,2	45	0,84	0,81	5 200	0,04
							82 300	130 300	33,4					
56	60	5,5	M5	M6	5	30	55 500	62 800	15,9	60	0,71	0,59	5 200	0,07
							71 100	92 600	19,2					

Roller screw drives

Flanged nut, single-piece
Standard design



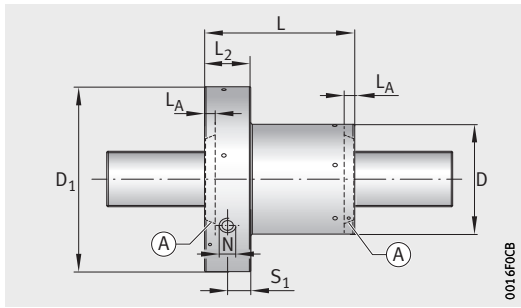
RGT-VTM, RGT-STM

Dimension table (continued) · Dimensions in mm

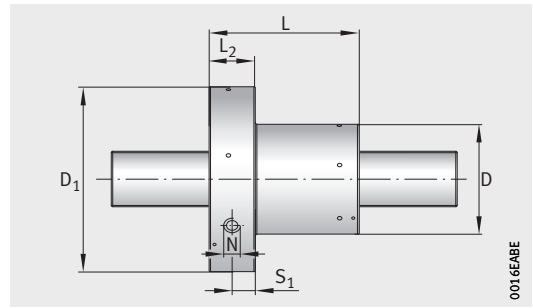
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
24	RGT-VTM-024.02 RGT-STM-024.02	2	5	A	–	0,8	48	80	55	–	20
				A	●	0,9			65	–	
				B	–	0,9			65	–	
	RGT-VTM-024.04 RGT-STM-024.04	4	5	A	–	0,8	48	80	55	–	20
				A	●	0,9			65	–	
				B	–	0,9			65	–	
	RGT-VTM-024.05 RGT-STM-024.05	5	5	A	–	0,8	48	80	55	–	20
				A	●	0,9			65	–	
				B	–	0,9			65	–	
	RGT-VTM-024.06 RGT-STM-024.06	6	5	A	–	0,8	48	80	55	–	20
				A	●	0,9			65	–	
				B	–	0,9			65	–	
	RGT-VTM-024.12 RGT-STM-024.12	12	5	A	–	0,8	48	80	55	–	20
				A	●	0,9			65	–	
				B	–	0,9			65	–	
	RGT-VTM-024.20 RGT-STM-024.20	20	5	A	–	0,8	48	80	55	–	20
				A	●	0,9			65	–	
				B	–	0,9			65	–	

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

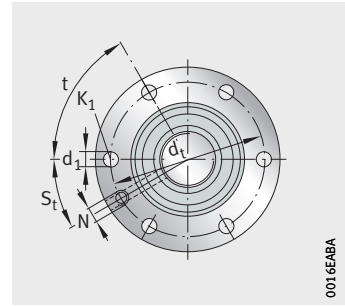


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
66	60	6,5	M6	M6	5	30	42 000	77 400	86,4	24	0,73	0,62	5 000	0,02
							42 000	77 400	86,4					
							60 600	143 200	114,9					
66	60	6,5	M6	M6	5	30	49 600	78 100	54,5	28	0,82	0,78	5 000	0,02
							49 600	78 100	54,5					
							71 700	143 800	72,4					
66	60	6,5	M6	M6	5	30	52 400	78 400	46,9	32	0,84	0,81	5 000	0,02
							52 400	78 400	46,9					
							76 000	145 200	62,6					
66	60	6,5	M6	M6	5	30	54 700	78 700	41,6	50	0,85	0,83	5 000	0,02
							54 700	78 700	41,6					
							77 500	140 100	54,5					
66	60	6,5	M6	M6	5	30	58 500	69 100	24,4	70	0,85	0,83	5 000	0,04
							58 500	69 100	24,4					
							90 700	141 800	34,3					
66	60	6,5	M6	M6	5	30	60 300	64 000	16,5	85	0,77	0,69	5 000	0,07
							60 300	64 000	16,5					
							90 300	122 900	22,6					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

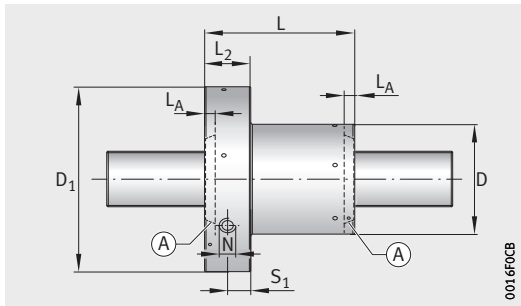
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Dimension table (continued) · Dimensions in mm

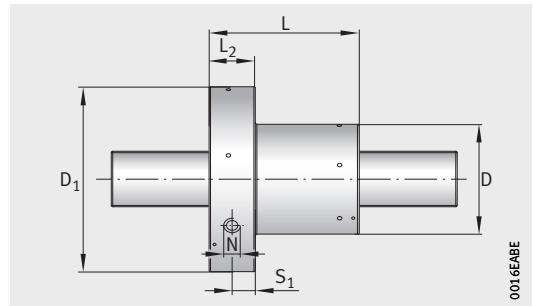
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
25	RGT-VTM-025.02 RGT-STM-025.02	2	5	A	●	1,3	56	84	78	–	20
	B			–	1,3	78			–		
	RGT-VTM-025.04 RGT-STM-025.04	4	5	A	●	1,3	56	84	78	–	20
	B			–	1,3	78			–		
	RGT-VTM-025.05 RGT-STM-025.05	5	5	A	●	1,3	56	84	78	–	20
	B			–	1,3	78			–		
	RGT-VTM-025.06 RGT-STM-025.06	6	5	A	●	1,3	56	84	78	–	20
	B			–	1,3	78			–		
	RGT-VTM-025.12 RGT-STM-025.12	12	5	A	●	1,3	56	84	78	–	20
	B			–	1,3	78			–		
	RGT-VTM-025.20 RGT-STM-025.20	20	5	A	●	1,3	56	84	78	–	20
	B			–	1,3	78			–		

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

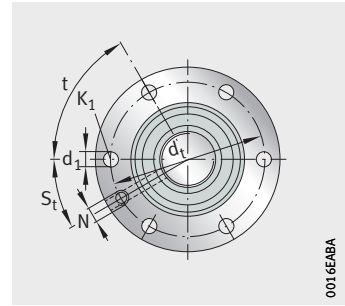


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
70	60	6,5	M6	M6	5	30	60 600	143 200	114,9	26	0,73	0,62	5 000	0,02
							74 500	198 600	134,9					
70	60	6,5	M6	M6	5	30	71 700	143 800	72,4	38	0,82	0,78	5 000	0,02
							87 500	196 900	84,5					
70	60	6,5	M6	M6	5	30	76 000	145 200	62,6	43	0,84	0,81	5 000	0,02
							93 400	200 600	73,5					
70	60	6,5	M6	M6	5	30	77 500	140 100	54,5	58	0,85	0,83	5 000	0,02
							97 200	199 700	64,9					
70	60	6,5	M6	M6	5	30	90 700	141 800	34,3	75	0,85	0,83	5 000	0,04
							111 200	194 600	40,2					
70	60	6,5	M6	M6	5	30	79 000	100 500	19,7	90	0,77	0,69	5 000	0,07
							153 600	103 900	24,4					

Roller screw drives

Flanged nut, single-piece
Standard design



0016EABA

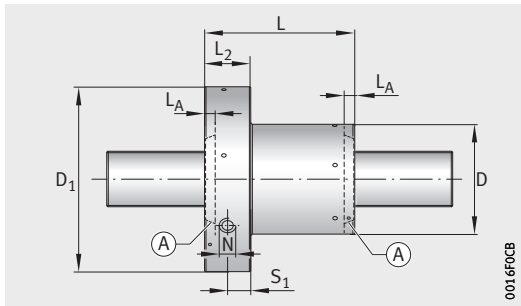
RGT-VTM, RGT-STM

Dimension table (continued) · Dimensions in mm

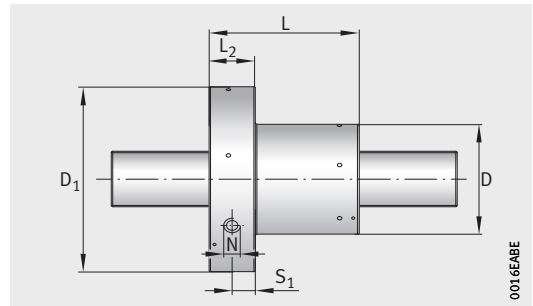
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions				
							D g6	D ₁	L h12	L _A	L ₂
27	RGT-VTM-027.02 RGT-STM-027.02	2	5	A	–	1,1	55	84	55	–	20
				A	●	1,2			69	–	
				B	–	1,2			69	–	
		2	5	C	–	1,4	55	84	79	–	20
				C	●	1,4			79	–	
				D	–	1,4			79	–	
	RGT-VTM-027.04 RGT-STM-027.04	4	5	A	–	1,1	55	84	55	–	20
				A	●	1,2			69	–	
				B	–	1,2			69	–	
		4	5	C	–	1,4	55	84	79	–	20
				C	●	1,4			79	–	
				D	–	1,4			79	–	
RGT-VTM-027.05 RGT-STM-027.05	5	5	A	–	1,1	55	84	55	–	20	
			A	●	1,2			69	–		
			B	–	1,2			69	–		
	5	5	C	–	1,4	55	84	79	–	20	
			C	●	1,4			79	–		
			D	–	1,4			79	–		
RGT-VTM-027.06 RGT-STM-027.06	6	5	A	–	1,1	55	84	55	–	20	
			A	●	1,2			69	–		
			B	–	1,2			69	–		
	6	5	C	–	1,4	55	84	79	–	20	
			C	●	1,4			79	–		
			D	–	1,4			79	–		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

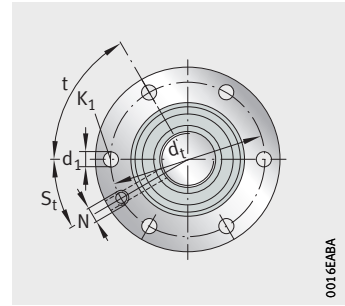


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
70	60	6,5	M6	M6	5	30	45 400	75 900	85,5	28	0,71	0,58	4 900	0,02
							45 400	75 900	85,5					
							68 800	153 500	117,6					
70	60	6,5	M6	M6	5	30	62 300	130 300	108,9	28	0,71	0,58	4 900	0,02
							62 300	130 300	108,9					
							84 800	214 400	138,0					
70	60	6,5	M6	M6	5	30	52 500	74 500	53,2	40	0,81	0,76	4 900	0,02
							52 500	74 500	53,2					
							80 900	154 200	74,1					
70	60	6,5	M6	M6	5	30	73 200	131 000	68,6	40	0,81	0,76	4 900	0,02
							73 200	131 000	68,6					
							99 000	212 500	86,5					
70	60	6,5	M6	M6	5	30	54 400	72 900	45,3	45	0,83	0,80	4 900	0,02
							54 400	72 900	45,3					
							83 600	149 900	62,9					
70	60	6,5	M6	M6	5	30	75 400	126 700	58,2	45	0,83	0,80	4 900	0,02
							75 400	126 700	58,2					
							103 400	210 400	74,1					
70	60	6,5	M6	M6	5	30	58 600	77 300	41,1	60	0,85	0,82	4 900	0,02
							58 600	77 300	41,1					
							87 100	150 200	55,7					
70	60	6,5	M6	M6	5	30	76 900	122 500	50,6	60	0,85	0,82	4 900	0,02
							76 900	122 500	50,6					
							107 000	208 200	65,2					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

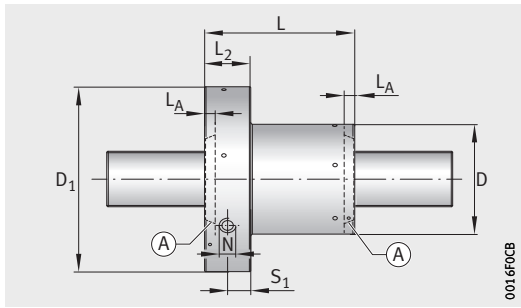
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Dimension table (continued) · Dimensions in mm

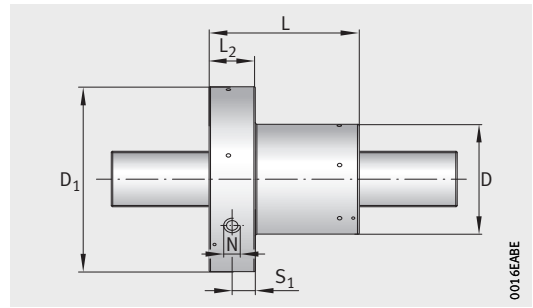
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
27	RGT-VTM-027.08 RGT-STM-027.08	8	5	A	–	1,1	55	84	55	–	20
				A	●	1,2			69	–	
				B	–	1,2			69	–	
		8	5	C	–	1,4	55	84	79	–	20
				C	●	1,4			79	–	
				D	–	1,4			79	–	
	RGT-VTM-027.15 RGT-STM-027.15	15	5	A	–	1,1	55	84	55	–	20
				A	●	1,2			69	–	
				B	–	1,2			69	–	
		15	5	C	–	1,4	55	84	79	–	20
				C	●	1,4			79	–	
				D	–	1,4			79	–	
RGT-VTM-027.25 RGT-STM-027.25	25	5	B	–	1,2	55	84	69	–	20	
			C	–	1,4			79	–		
	25	5	C	●	1,4	55	84	79	–	20	
			D	–	1,4			79	–		

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

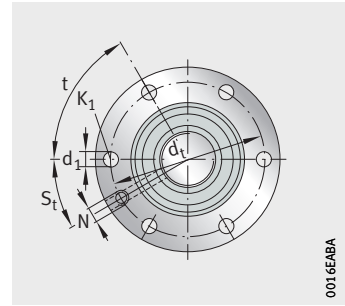


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
70	60	6,5	M6	M6	5	30	61 500	75 900	33,5	75	0,86	0,84	4 900	0,02
							61 500	75 900	33,5					
							94 800	155 600	46,7					
70	60	6,5	M6	M6	5	30	83 900	127 800	42,5	75	0,86	0,84	4 900	0,02
							83 900	127 800	42,5					
							116 000	213 800	54,5					
70	60	6,5	M6	M6	5	30	66 500	71 200	21,1	90	0,85	0,82	4 900	0,04
							66 500	71 200	21,1					
							106 200	153 200	30,2					
70	60	6,5	M6	M6	5	30	90 600	118 800	26,8	90	0,85	0,82	4 900	0,04
							90 600	118 800	26,8					
							129 000	207 400	35,1					
70	60	6,5	M6	M6	5	30	86 300	99 800	16,7	100	0,72	0,62	4 900	0,07
70	60	6,5	M6	M6	5	30	86 300	99 800	16,7	100	0,72	0,62	4 900	0,07
							86 300	99 800	16,7					
							110 900	147 300	20,2					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

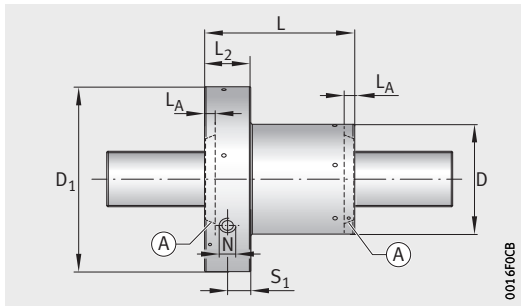
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Dimension table (continued) · Dimensions in mm

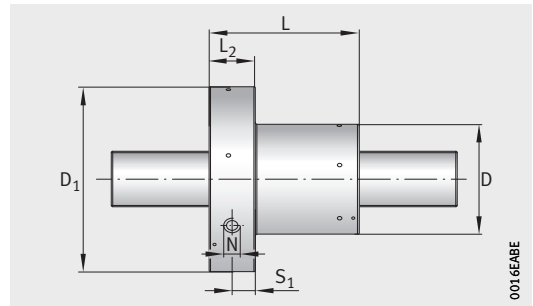
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
30	RGT-VTM-030.02 RGT-STM-030.02	2	5	A	–	1,7	62	97	55	–	27
				A	●	1,9			69	–	
				B	–	1,9			69	–	
		2	5	C	–	2,1	64	97	85	–	27
				C	●	2,1			85	–	
				D	–	2,1			85	–	
	RGT-VTM-030.04 RGT-STM-030.04	4	5	A	–	1,7	62	97	55	–	27
				A	●	1,9			69	–	
				B	–	1,9			69	–	
		4	5	C	–	2,1	64	97	85	–	27
				C	●	2,1			85	–	
				D	–	2,1			85	–	
RGT-VTM-030.05 RGT-STM-030.05	5	5	A	–	1,7	62	97	55	–	27	
			A	●	1,9			69	–		
			B	–	1,9			69	–		
	5	5	C	–	2,1	64	97	85	–	27	
			C	●	2,1			85	–		
			D	–	2,1			85	–		
RGT-VTM-030.06 RGT-STM-030.06	6	5	A	–	1,7	62	97	55	–	27	
			A	●	1,9			69	–		
			B	–	1,9			69	–		
	6	5	C	–	2,1	64	97	85	–	27	
			C	●	2,1			85	–		
			D	–	2,1			85	–		

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

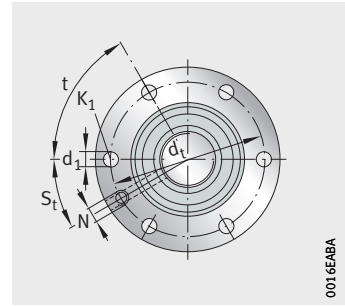


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Fric-tional torque ²⁾ M_V Ncm	Theoretical efficiency		Lim-iting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
81	60	9	M8	M6	6	30	49 300	75 200	85,1	30	0,69	0,54	4 700	0,02
							49 300	75 200	85,1					
							76 000	157 900	118,1					
81	60	9	M8	M6	6	30	79 700	170 700	122,5	30	0,69	0,54	4 700	0,02
							79 700	170 700	122,5					
							102 900	256 300	148,6					
81	60	9	M8	M6	6	30	56 600	73 900	52,9	45	0,80	0,75	4 700	0,02
							56 600	73 900	52,9					
							88 700	158 700	74,4					
81	60	9	M8	M6	6	30	92 200	168 900	76,6	45	0,80	0,75	4 700	0,02
							92 200	168 900	76,6					
							119 300	254 300	93,1					
81	60	9	M8	M6	6	30	60 400	76 400	46,2	55	0,82	0,78	4 700	0,02
							60 400	76 400	46,2					
							93 200	159 100	64,1					
81	60	9	M8	M6	6	30	97 800	171 800	66,5	55	0,82	0,78	4 700	0,02
							97 800	171 800	66,5					
							126 700	258 800	80,9					
81	60	9	M8	M6	6	30	61 900	74 600	40,4	70	0,84	0,81	4 700	0,02
							61 900	74 600	40,4					
							97 100	159 400	56,8					
81	60	9	M8	M6	6	30	99 900	167 100	58,0	70	0,84	0,81	4 700	0,02
							99 900	167 100	58,0					
							130 500	255 000	71,1					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

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Dimension table (continued) · Dimensions in mm

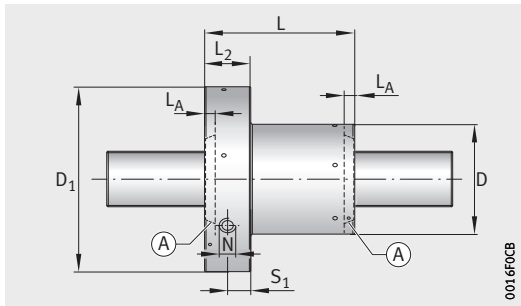
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions				
							D g6	D ₁	L h12	L _A	L ₂
30	RGT-VTM-030.08 RGT-STM-030.08	8	5	A	–	1,7	62	97	55	–	27
				A	●	1,9			69	–	
				B	–	1,9			69	–	
		8	5	C	–	2,1	64	97	85	–	27
				C	●	2,1			85	–	
				D	–	2,1			85	–	
	RGT-VTM-030.10 RGT-STM-030.10	10	5	A	–	1,7	62	97	55	–	27
				A	●	1,9			69	–	
				B	–	1,9			69	–	
		10	5	C	–	2,1	64	97	85	–	27
				C	●	2,1			85	–	
				D	–	2,1			85	–	
RGT-VTM-030.20 RGT-STM-030.20	20	5	A	–	1,7	62	97	55	–	27	
			A	●	1,9			69	–		
			B	–	1,9			69	–		
	20	5	C	–	2,1	64	97	85	–	27	
			C	●	2,1			85	–		
			D	–	2,1			85	–		

ⓐ Wipers: ● with wiper.

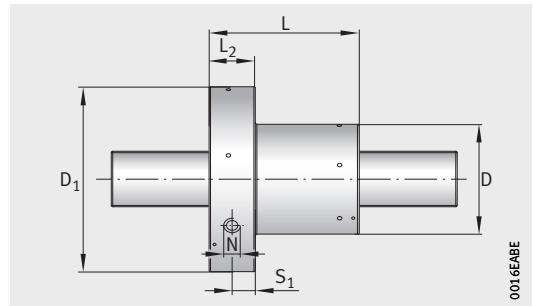
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTM.

3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

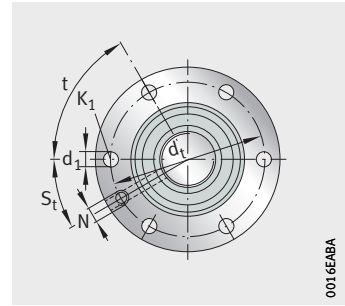


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
81	60	9	M8	M6	6	30	63 800	71 100	32,5	80	0,86	0,83	4 700	0,02
							63 800	71 100	32,5					
							101 300	155 200	46,2					
81	60	9	M8	M6	6	30	105 400	165 300	47,6	80	0,86	0,83	4 700	0,02
							105 400	165 300	47,6					
							137 000	250 200	58,0					
81	60	9	M8	M6	6	30	64 600	67 700	27,3	100	0,86	0,84	4 700	0,04
							64 600	67 700	27,3					
							103 000	148 400	38,9					
81	60	9	M8	M6	6	30	113 600	173 700	41,9	100	0,86	0,84	4 700	0,04
							113 600	173 700	41,9					
							144 700	253 700	50,3					
81	60	9	M8	M6	6	30	73 900	71 100	17,2	140	0,82	0,78	4 700	0,07
							73 900	71 100	17,2					
							123 900	164 600	25,4					
81	60	9	M8	M6	6	30	123 900	164 600	25,4	140	0,82	0,78	4 700	0,07
							123 900	164 600	25,4					
							159 600	243 500	30,8					

Roller screw drives

Flanged nut, single-piece
Standard design



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RGT-VTM, RGT-STM

Dimension table (continued) · Dimensions in mm

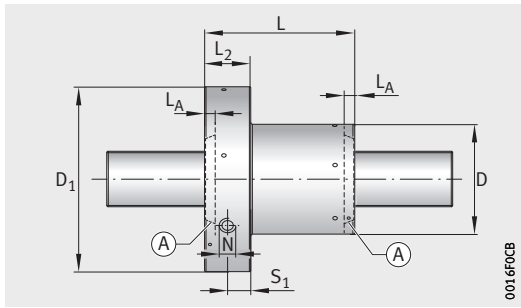
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
36	RGT-VTM-036.02 RGT-STM-036.02	2	5	A	–	2,3	75	110	68	–	25
				A	●	2,6			82	–	
				B	–	2,6			82	–	
	RGT-VTM-036.04 RGT-STM-036.04	4	5	A	–	2,3	75	110	68	–	25
				A	●	2,6			82	–	
				B	–	2,6			82	–	
	RGT-VTM-036.05 RGT-STM-036.05	5	5	A	–	2,3	75	110	68	–	25
				A	●	2,6			82	–	
				B	–	2,6			82	–	
	RGT-VTM-036.06 RGT-STM-036.06	6	5	A	–	2,3	75	110	68	–	25
				A	●	2,6			82	–	
				B	–	2,6			82	–	
RGT-VTM-036.08 RGT-STM-036.08	8	5	A	–	2,3	75	110	68	–	25	
			A	●	2,6			82	–		
			B	–	2,6			82	–		
RGT-VTM-036.10 RGT-STM-036.10	10	5	A	–	2,3	75	110	68	–	25	
			A	●	2,6			82	–		
			B	–	2,6			82	–		
RGT-VTM-036.20 RGT-STM-036.20	20	5	A	–	2,3	75	110	68	–	25	
			A	●	2,6			82	–		
			B	–	2,6			82	–		
RGT-VTM-036.25 RGT-STM-036.25	25	5	A	–	2,3	75	110	68	–	25	
			A	●	2,6			82	–		
			B	–	2,6			82	–		
RGT-VTM-036.30 RGT-STM-036.30	30	5	A	–	2,3	75	110	68	–	25	
			A	●	2,6			82	–		
			B	–	2,6			82	–		

⊙ Wipers: ● with wiper.

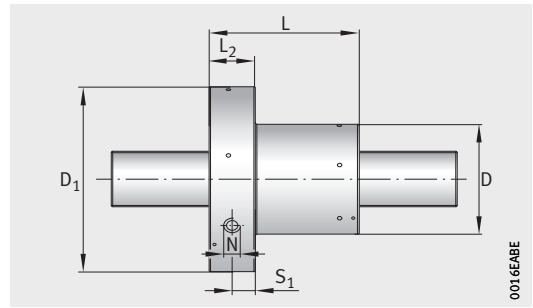
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTM.

3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

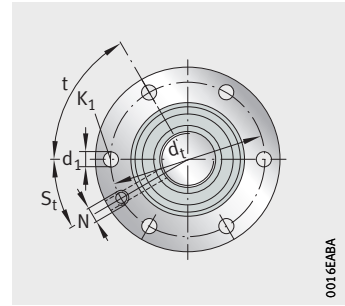


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
92	60	9	M8	M6	6	30	70 400	131 900	107,9	45	0,65	0,46	4 400	0,02
							70 400	131 900	107,9					
							98 200	233 300	139,2					
92	60	9	M8	M6	6	30	81 800	130 100	67,3	60	0,77	0,71	4 400	0,02
							81 800	130 100	67,3					
							115 500	234 200	87,7					
92	60	9	M8	M6	6	30	87 200	133 300	58,6	70	0,80	0,75	4 400	0,02
							87 200	133 300	58,6					
							121 600	234 700	75,6					
92	60	9	M8	M6	6	30	90 900	133 700	51,9	80	0,82	0,78	4 400	0,02
							90 900	133 700	51,9					
							124 900	229 100	66,1					
92	60	9	M8	M6	6	30	93 800	126 600	41,7	100	0,85	0,82	4 400	0,02
							93 800	126 600	41,7					
							133 400	230 000	54,6					
92	60	9	M8	M6	6	30	96 200	122 200	35,2	120	0,86	0,83	4 400	0,04
							96 200	122 200	35,2					
							137 000	221 800	46,2					
92	60	9	M8	M6	6	30	111 600	126 500	22,2	160	0,85	0,82	4 400	0,07
							111 600	126 500	22,2					
							152 100	211 200	28,1					
92	60	9	M8	M6	6	30	105 300	109 100	17,7	180	0,81	0,77	4 400	0,07
							105 300	109 100	17,7					
							158 500	213 400	24,3					
92	60	9	M8	M6	6	30	127 100	144 000	17,7	200	0,77	0,69	4 400	0,07
							127 100	144 000	17,7					
							170 300	230 400	22,2					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

Dimension table (continued) · Dimensions in mm

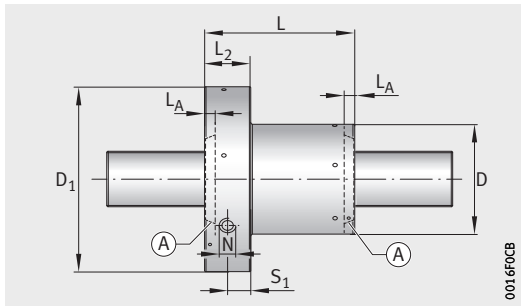
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions				
							D g6	D ₁	L h12	L _A	L ₂
39	RGT-VTM-039.02 RGT-STM-039.02	2	5	A	–	3,8	80	124	72	–	33
				A	●	3,8			90	–	
				B	–	3,8			90	–	
		2	5	C	–	4,0	82	124	100	–	33
				C	●	4,0			100	–	
				D	–	4,0			100	–	
	RGT-VTM-039.04 RGT-STM-039.04	4	5	A	–	3,8	80	124	72	–	33
				A	●	3,8			90	–	
				B	–	3,8			90	–	
		4	5	C	–	4,0	82	124	100	–	33
				C	●	4,0			100	–	
				D	–	4,0			100	–	
	RGT-VTM-039.05 RGT-STM-039.05	5	5	A	–	3,8	80	124	72	–	33
				A	●	3,8			90	–	
				B	–	3,8			90	–	
		5	5	C	–	4,0	82	124	100	–	33
C				●	4,0	100			–		
D				–	4,0	100			–		
RGT-VTM-039.10 RGT-STM-039.10	10	5	A	–	3,8	80	124	72	–	33	
			A	●	3,8			90	–		
			B	–	3,8			90	–		
	10	5	C	–	4,0	82	124	100	–	33	
			C	●	4,0			100	–		
			D	–	4,0			100	–		

ⓐ Wipers: ● with wiper.

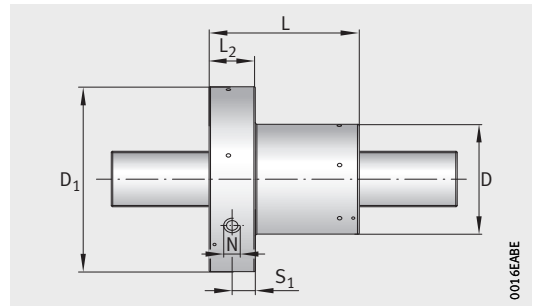
¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Overrunning frictional torque for preloaded nuts RGT-VTM.

³⁾ Maximum axial clearance for non-preloaded nuts RGT-STM.

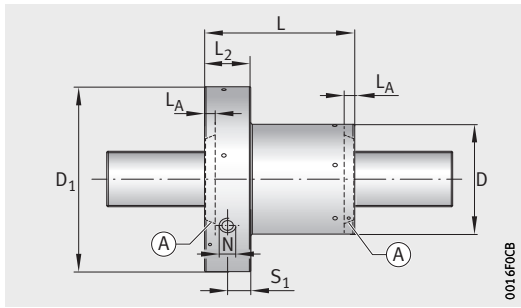


With wiper

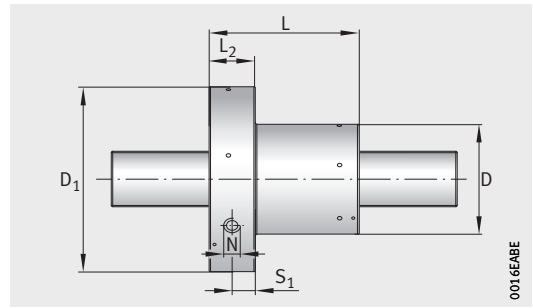


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
102	60	11	M10	M6	8	30	84 000	156 900	116,0	80	0,63	0,42	4 200	0,02
							84 000	156 900	116,0					
							123 500	299 900	155,3					
102	60	11	M10	M6	8	30	114 900	266 500	147,1	80	0,63	0,42	4 200	0,02
							114 900	266 500	147,1					
							144 600	386 300	175,1					
102	60	11	M10	M6	8	30	98 100	157 900	73,1	95	0,76	0,69	4 200	0,02
							98 100	157 900	73,1					
							143 200	297 600	97,3					
102	60	11	M10	M6	8	30	133 200	264 300	92,1	95	0,76	0,69	4 200	0,02
							133 200	264 300	92,1					
							168 900	387 200	110,3					
102	60	11	M10	M6	8	30	100 900	152 600	62,0	110	0,79	0,74	4 200	0,02
							100 900	152 600	62,0					
							149 500	294 700	83,4					
102	60	11	M10	M6	8	30	138 900	261 500	78,9	110	0,79	0,74	4 200	0,02
							138 900	261 500	78,9					
							175 500	380 700	94,2					
102	60	11	M10	M6	8	30	117 600	155 000	39,0	170	0,85	0,83	4 200	0,04
							117 600	155 000	39,0					
							174 200	297 200	52,6					
102	60	11	M10	M6	8	30	161 800	264 000	49,7	170	0,85	0,83	4 200	0,04
							161 800	264 000	49,7					
							204 500	383 100	59,4					



With wiper

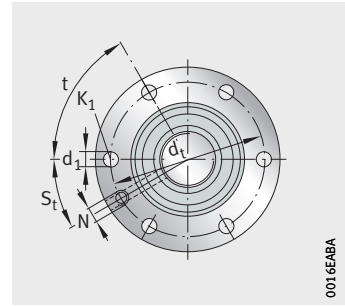


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
102	60	11	M10	M6	8	30	135 700	159 800	24,6	240	0,85	0,83	4 200	0,07
							135 700	159 800	24,6					
							193 800	285 300	32,2					
102	60	11	M10	M6	8	30	179 500	252 500	30,4	240	0,85	0,83	4 200	0,07
							179 500	252 500	30,4					
							235 900	387 800	37,4					
102	60	11	M10	M6	8	30	136 800	149 800	18,0	300	0,79	0,74	4 200	0,07
							136 800	149 800	18,0					
							206 800	289 900	24,6					
102	60	11	M10	M6	8	30	183 900	241 000	22,5	300	0,79	0,74	4 200	0,07
							183 900	241 000	22,5					
							229 400	340 400	26,6					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

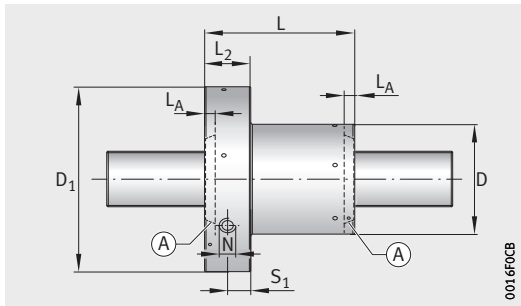
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Dimension table (continued) · Dimensions in mm

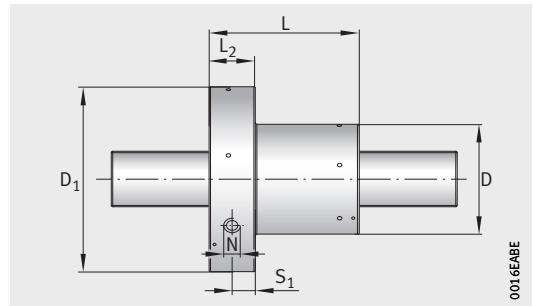
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
44	RGT-VTM-044.12 RGT-STM-044.12	12	6	A	●	3,8	82	124	90	–	33
	B			–	3,8	90			–		
	RGT-VTM-044.24 RGT-STM-044.24	24	6	A	●	3,8	82	124	90	–	33
	B			–	3,8	90			–		
	RGT-VTM-044.30 RGT-STM-044.30	30	6	A	●	3,8	82	124	90	–	33
	B			–	3,8	90			–		
	RGT-VTM-044.36 RGT-STM-044.36	36	6	A	●	3,8	82	124	90	–	33
	B			–	3,8	90			–		
	RGT-VTM-044.42 RGT-STM-044.42	42	6	A	●	3,8	82	124	90	–	33
	B			–	3,8	90			–		

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

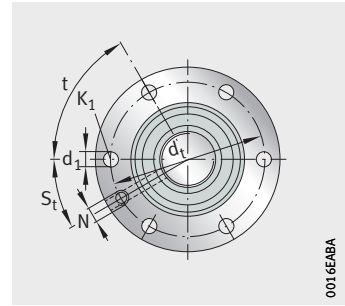


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
102	60	11	M10	M6	8	30	132 900	207 000	46,0	180	0,86	0,83	4 100	0,04
							164 900	292 800	54,1					
102	60	11	M10	M6	8	30	138 000	179 300	26,8	280	0,85	0,82	4 100	0,07
							182 600	280 100	33,1					
102	60	11	M10	M6	8	30	155 300	206 000	24,5	320	0,82	0,78	4 100	0,07
							193 700	291 200	29,0					
102	60	11	M10	M6	8	30	139 400	168 100	19,6	360	0,77	0,71	4 100	0,07
							187 500	267 400	24,5					
102	60	11	M10	M6	8	30	162 500	210 500	19,6	400	0,71	0,59	4 100	0,07
							190 700	269 600	22,1					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

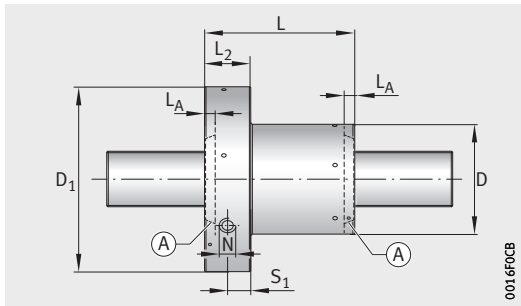
0016EABA

Dimension table (continued) · Dimensions in mm

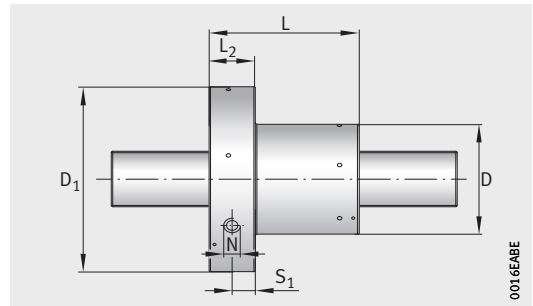
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
48	RGT-VTM-048.05 RGT-STM-048.05	5	5	A	–	5,5	96	150	95	–	37
				A	●	6,0			113	–	
				B	–	6,0			113	–	
		5	5	C	–	7,6	105	150	127	–	37
				C	●	7,6			127	–	
				D	–	7,6			127	–	
	RGT-VTM-048.10 RGT-STM-048.10	10	5	A	–	5,5	96	150	95	–	37
				A	●	6,0			113	–	
				B	–	6,0			113	–	
		10	5	C	–	7,6	105	150	127	–	37
				C	●	7,6			127	–	
				D	–	7,6			127	–	
RGT-VTM-048.20 RGT-STM-048.20	20	5	A	–	5,5	96	150	95	–	37	
			A	●	6,0			113	–		
			B	–	6,0			113	–		
	20	5	C	–	7,6	105	150	127	–	37	
			C	●	7,6			127	–		
			D	–	7,6			127	–		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

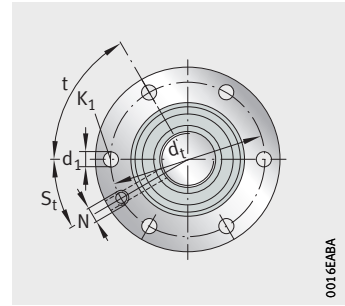


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
127	60	13	M12	M8×1	8	30	165 300	349 300	89,8	180	0,76	0,69	3 800	0,02
							165 300	349 300	89,8					
							213 400	534 600	109,5					
127	60	13	M12	M8×1	8	30	202 900	492 200	105,3	180	0,76	0,69	3 800	0,02
							202 900	492 200	105,3					
							249 600	687 200	123,7					
127	60	13	M12	M8×1	8	30	188 900	332 800	55,1	200	0,84	0,81	3 800	0,02
							188 900	332 800	55,1					
							246 100	516 400	67,7					
127	60	13	M12	M8×1	8	30	233 600	474 300	65,0	200	0,84	0,81	3 800	0,02
							233 600	474 300	65,0					
							289 100	668 000	76,7					
127	60	13	M12	M8×1	8	30	214 300	319 500	33,8	280	0,86	0,84	3 800	0,07
							214 300	319 500	33,8					
							289 200	522 300	42,6					
127	60	13	M12	M8×1	8	30	274 500	480 300	40,9	280	0,86	0,84	3 800	0,07
							274 500	480 300	40,9					
							332 500	651 700	47,5					

Roller screw drives

Flanged nut, single-piece
Standard design



0016EABA

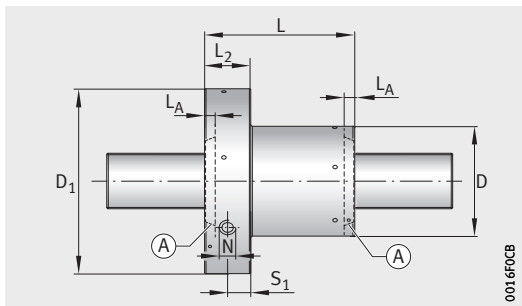
RGT-VTM, RGT-STM

Dimension table (continued) · Dimensions in mm

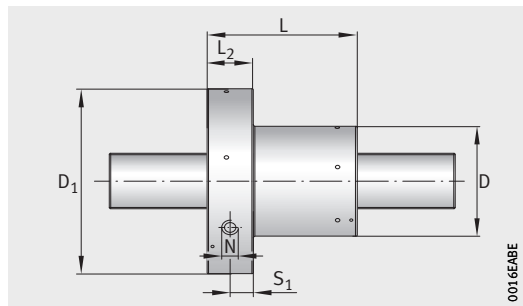
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions				
							D	D ₁	L	L _A	L ₂
48	RGT-VTM-048.30⁴⁾ RGT-STM-048.30⁴⁾	30	5	A	–	5,5	96	150	95	–	37
				A	●	6,0			113	–	
				B	–	6,0			113	–	
		30	5	C	–	7,6	105	150	127	–	37
				C	●	7,6			127	–	
				D	–	7,6			127	–	
	RGT-VTM-048.40 RGT-STM-048.40	40	5	A	–	5,5	96	150	95	–	37
				A	●	6,0			113	–	
				B	–	6,0			113	–	
		40	5	C	–	7,6	105	150	127	–	37
				C	●	7,6			127	–	
				D	–	7,6			127	–	

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.
- 4) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 220.



With wiper

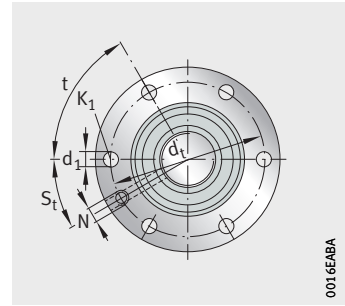


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
127	60	13	M12	M8×1	8	30	222 700	325 300	25,8	340	0,83	0,80	3 800	0,07
							222 700	325 300	25,8					
							292 900	506 900	31,9					
127	60	13	M12	M8×1	8	30	269 800	444 700	29,9	340	0,83	0,80	3 800	0,07
							269 800	444 700	29,9					
							338 100	635 400	35,7					
127	60	13	M12	M8×1	8	30	221 300	330 900	21,3	420	0,77	0,69	3 800	0,07
							221 300	330 900	21,3					
							283 400	491 600	25,8					
127	60	13	M12	M8×1	8	30	283 400	491 600	25,8	420	0,77	0,69	3 800	0,07
							283 400	491 600	25,8					
							343 300	662 700	29,9					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

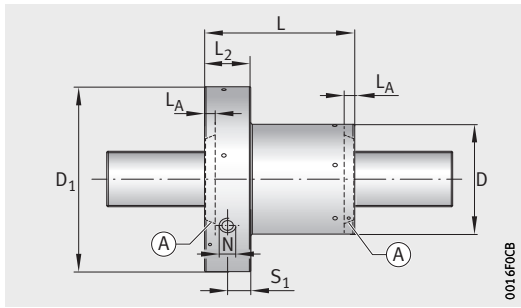
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Dimension table (continued) · Dimensions in mm

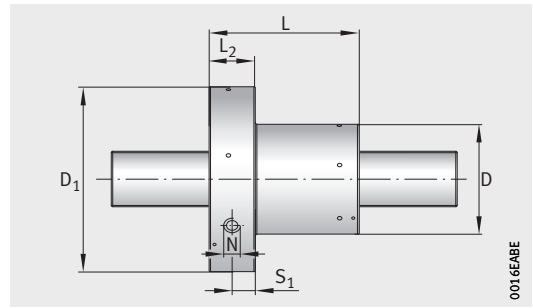
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
48	RGT-VTM-048.06 RGT-STM-048.06	6	6	A	–	4,5	86	122	94	–	35
				A	●	5,0			104		
	RGT-VTM-048.12 RGT-STM-048.12	12	6	A	–	4,5	86	122	94	–	35
				A	●	5,0			104		
	RGT-VTM-048.18 RGT-STM-048.18	18	6	A	–	4,5	86	122	94	–	35
				A	●	5,0			104		
	RGT-VTM-048.30⁴⁾ RGT-STM-048.30⁴⁾	30	6	A	–	4,5	86	122	94	–	35
				A	●	5,0			104		

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.
- 4) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 218.



With wiper

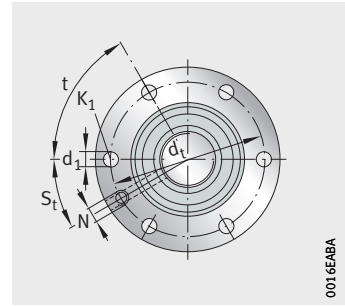


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
104	45	11	M10	M8×1	8	22,5	147 200	333 900	91,1	200	0,79	0,73	3 800	0,04
							147 200	333 900	91,1					
104	45	11	M10	M8×1	8	22,5	170 800	327 000	56,6	250	0,85	0,83	3 800	0,07
							170 800	327 000	56,6					
104	45	11	M10	M8×1	8	22,5	187 600	329 700	43,2	280	0,86	0,84	3 800	0,07
							187 600	329 700	43,2					
104	45	11	M10	M8×1	8	22,5	197 900	306 600	29,4	380	0,83	0,80	3 800	0,07
							197 900	306 600	29,4					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

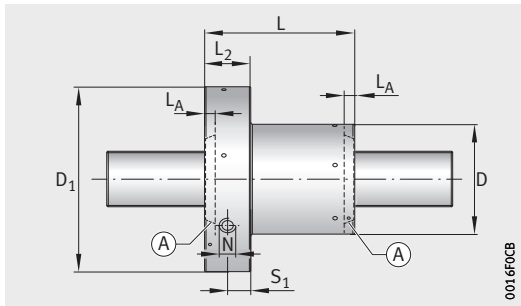
0016EABA

Dimension table (continued) · Dimensions in mm

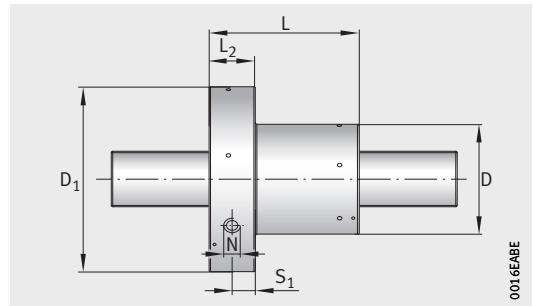
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
56	RGT-VTM-056.12 RGT-STM-056.12	12	6	A	●	6,8	105	150	112	–	37
				B	–	6,8			112	–	
	RGT-VTM-056.24 RGT-STM-056.24	24	6	A	●	6,8	105	150	112	–	37
				B	–	6,8			112	–	
	RGT-VTM-056.30 RGT-STM-056.30	30	6	A	●	6,8	105	150	112	–	37
				B	–	6,8			112	–	
	RGT-VTM-056.36 RGT-STM-056.36	36	6	A	●	6,8	105	150	112	–	37
				B	–	6,8			112	–	

Ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTM.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

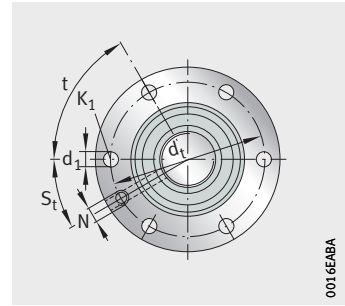


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C_0 N	stat. C_0 N			η_1	η_2		
127	60	13	M12	M8×1	8	30	195 300	335 400	56,7	320	0,84	0,81	3 500	0,04
							261 200	534 700	70,6					
127	60	13	M12	M8×1	8	30	217 600	320 800	34,7	400	0,86	0,84	3 500	0,07
							302 500	540 900	44,5					
127	60	13	M12	M8×1	8	30	231 700	334 400	30,3	480	0,85	0,82	3 500	0,07
							320 300	555 400	38,7					
127	60	13	M12	M8×1	8	30	220 900	306 300	25,6	560	0,83	0,79	3 500	0,07
							302 400	501 300	32,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

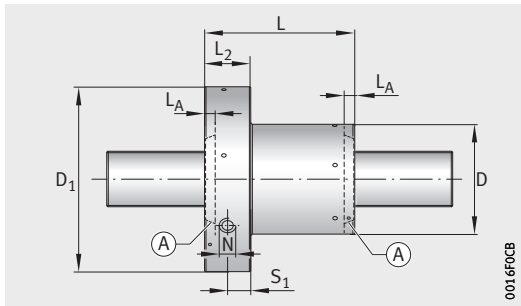
0016EABA

Dimension table (continued) · Dimensions in mm

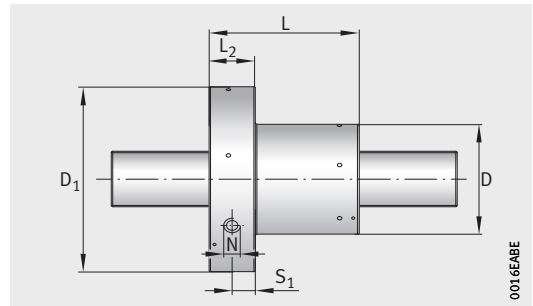
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions				
							D g6	D ₁	L h12	L _A	L ₂
63	RGT-VTM-063.05 RGT-STM-063.05	5	5	A	–	10,7	118	180	115	–	45
				A	●	11,6	118		133	–	
		5	5	C	–	13,0	122	180	152	–	45
				D	–	13,0	122		152	–	
	RGT-VTM-063.10 ³⁾ RGT-STM-063.10 ³⁾	10	5	A	–	10,7	118	180	115	–	45
				A	●	11,6	118		133	–	
		10	5	C	–	13,0	122	180	152	–	45
				D	–	13,4	122		152	–	
	RGT-VTM-063.15 RGT-STM-063.15	15	5	A	–	10,7	118	180	115	–	45
				A	●	11,6	118		133	–	
		15	5	C	–	13,0	122	180	152	–	45
				D	–	13,4	122		152	–	
	RGT-VTM-063.20 RGT-STM-063.20	20	5	A	–	10,7	118	180	115	–	45
				A	●	11,6	118		133	–	
		20	5	C	–	13,0	122	180	152	–	45
				D	–	13,4	122		152	–	
RGT-VTM-063.30 RGT-STM-063.30	30	5	A	–	10,7	118	180	115	–	45	
			A	●	11,6	118		133	–		
	30	5	C	–	13,0	122	180	152	–	45	
			D	–	13,4	122		152	–		

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STM.
- 3) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 228.



With wiper

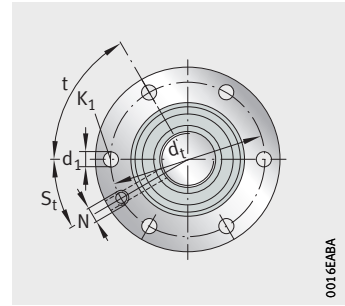


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^2/3/\mu m$	Fric-tional torque M_V Ncm	Theoretical efficiency		Lim-iting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C ₀ N			η_1	η_2		
150	60	17,5	M16	M8×1	10	30	248 700	508 400	105,1	-	0,72	0,61	3 000	0,02
							248 700	508 400	105,1					
150	60	17,5	M16	M8×1	10	30	315 800	756 100	126,0	-	0,72	0,61	3 000	0,02
							315 800	756 100	126,0					
							380 800	1 020 500	145,2					
150	60	17,5	M16	M8×1	10	30	286 100	500 000	65,5	-	0,82	0,78	3 000	0,04
							286 100	500 000	65,5					
150	60	17,5	M16	M8×1	10	30	368 500	760 100	79,4	-	0,82	0,78	3 000	0,04
							368 500	760 100	79,4					
							440 600	1 010 200	90,9					
							440 600	1 010 200	90,9					
150	60	17,5	M16	M8×1	10	30	312 800	504 100	50,0	-	0,85	0,82	3 000	0,07
							312 800	504 100	50,0					
150	60	17,5	M16	M8×1	10	30	394 000	737 200	59,6	-	0,85	0,82	3 000	0,07
							394 000	737 200	59,6					
							486 000	1 028 300	69,8					
150	60	17,5	M16	M8×1	10	30	326 200	508 000	41,3	-	0,86	0,84	3 000	0,07
							326 200	508 000	41,3					
150	60	17,5	M16	M8×1	10	30	401 600	714 400	48,3	-	0,86	0,84	3 000	0,07
							401 600	714 400	48,3					
							493 200	989 600	56,5					
150	60	17,5	M16	M8×1	10	30	326 700	515 800	31,5	-	0,86	0,83	3 000	0,07
							326 700	515 800	31,5					
150	60	17,5	M16	M8×1	10	30	411 600	748 900	37,5	-	0,86	0,83	3 000	0,07
							411 600	748 900	37,5					
							494 100	997 100	43,1					

Roller screw drives

Flanged nut, single-piece
Standard design



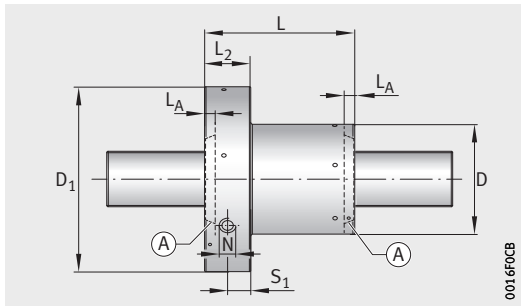
RGT-VTM, RGT-STM

Dimension table (continued) · Dimensions in mm

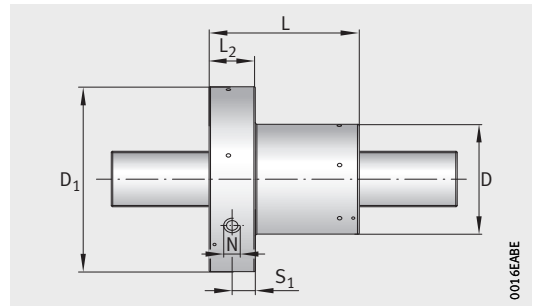
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
63	RGT-VTM-063.40 RGT-STM-063.40	40	5	A	–	10,7	118	180	115	–	45
				A	●	11,6	118		133	–	
		40	5	C	–	13,0	122	180	152	–	45
				C	●	13,0	122		152	–	
				D	–	13,4	122		152	–	
				D	●	13,4	122		152	–	
	RGT-VTM-063.45 RGT-STM-063.45	45	5	A	–	10,7	118	180	115	–	45
				A	●	11,6	118		133	–	
		45	5	C	–	13,0	122	180	152	–	45
				C	●	13,0	122		152	–	
				D	–	13,4	122		152	–	
				D	●	13,4	122		152	–	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

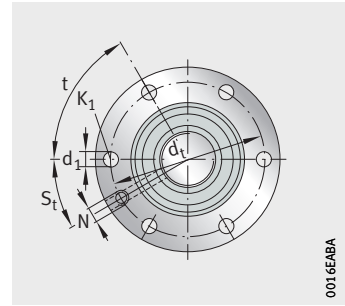


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Fric-tional torque M_V Ncm	Theoretical efficiency		Lim-iting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
150	60	17,5	M16	M8×1	10	30	306 200	474 200	24,8	-	0,83	0,80	3 000	0,07
							306 200	474 200	24,8					
150	60	17,5	M16	M8×1	10	30	381 900	676 800	29,4	-	0,83	0,80	3 000	0,07
							381 900	676 800	29,4					
							492 000	1 004 500	35,6					
150	60	17,5	M16	M8×1	10	30	295 400	453 700	22,4	-	0,81	0,76	3 000	0,07
							295 400	453 700	22,4					
150	60	17,5	M16	M8×1	10	30	380 400	680 500	27,1	-	0,81	0,76	3 000	0,07
							380 400	680 500	27,1					
							463 000	624 100	31,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

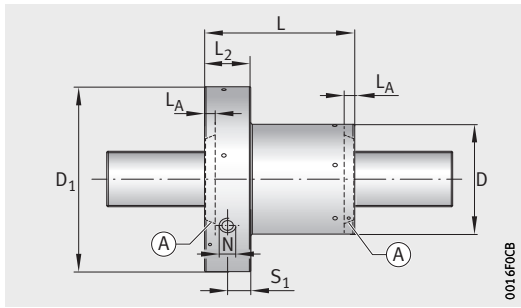
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Dimension table (continued) · Dimensions in mm

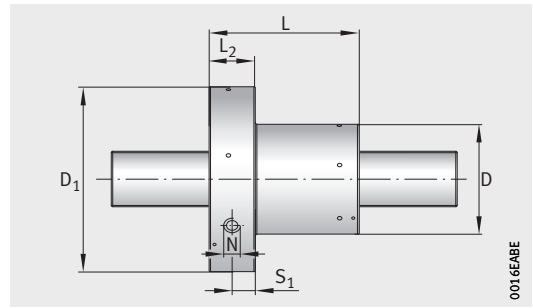
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
63	RGT-VTM-063.10 ³⁾ RGT-STM-063.10 ³⁾	10	6	A	–	10,2	115	180	111	–	40
				A	●	11,6	120		129	–	
				B	–	11,6	120		129	–	
	RGT-VTM-063.12 RGT-STM-063.12	12	6	A	–	10,2	115	180	111	–	40
				A	●	11,6	120		129	–	
				B	–	11,6	120		129	–	
	RGT-VTM-063.18 RGT-STM-063.18	18	6	A	–	10,2	115	180	111	–	40
				A	●	11,6	120		129	–	
				B	–	11,6	120		129	–	
	RGT-VTM-063.24 RGT-STM-063.24	24	6	A	–	10,2	115	180	111	–	40
				A	●	11,6	120		129	–	
				B	–	11,6	120		129	–	

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STM.
- 3) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 224.



With wiper

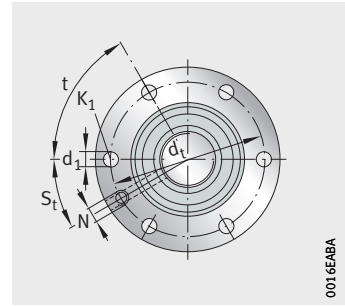


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_{κ} $N^{2/3}/\mu m$	Fric-tional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
150	60	17,5	M16	M8×1	8	30	263 700	543 200	79,9	-	0,82	0,78	3 000	0,04
							263 700	543 200	79,9					
							319 400	735 500	92,4					
150	60	17,5	M16	M8×1	8	30	275 900	548 600	71,0	-	0,83	0,80	3 000	0,07
							275 900	548 600	71,0					
							330 000	728 000	81,3					
150	60	17,5	M16	M8×1	8	30	292 700	527 300	53,0	-	0,86	0,83	3 000	0,07
							292 700	527 300	53,0					
							356 300	718 400	61,5					
150	60	17,5	M16	M8×1	8	30	311 000	530 900	43,8	-	0,86	0,84	3 000	0,07
							311 000	530 900	43,8					
							365 100	682 900	49,4					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

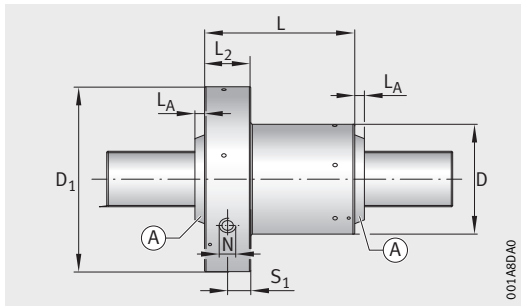
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions					
							D g6	D_1	L h12	L_A	L_2	
78	RGT-VTM-078.05 RGT-STM-078.05	5	6	A	●	22	150	210	178	–	45	
				B	●	23			191	4		
			5	6	C	–	26	150	210	215	–	45
	RGT-VTM-078.10 RGT-STM-078.10	10	6	A	●	22	150	210	178	–	45	
				B	●	23			191	4		
			10	6	C	–	26	150	210	215	–	45
	RGT-VTM-078.15 RGT-STM-078.15	15	6	A	●	22	150	210	178	–	45	
				B	●	23			191	4		
			15	6	C	–	26	150	210	215	–	45
	RGT-VTM-078.20 RGT-STM-078.20	20	6	A	●	22	150	210	178	–	45	
				B	●	23			191	4		
			20	6	C	–	26	150	210	215	–	45
	RGT-VTM-078.30 RGT-STM-078.30	30	6	A	●	22	150	210	178	–	45	
				B	●	23			191	4		
			30	6	C	–	26	150	210	215	–	45
	RGT-VTM-078.36 RGT-STM-078.36	36	6	A	●	22	150	210	178	–	45	
				B	●	23			191	4		
			36	6	C	–	26	150	210	215	–	45
	RGT-VTM-078.42 RGT-STM-078.42	42	6	A	●	22	150	210	178	–	45	
				B	●	23			191	4		
			42	6	C	–	26	150	210	215	–	45

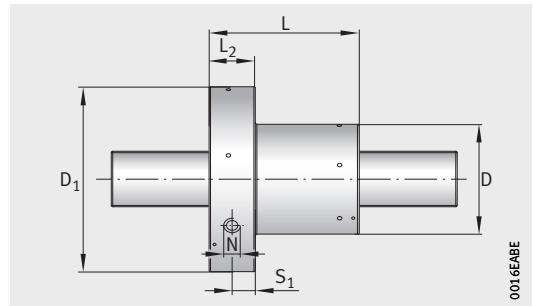
⊙ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

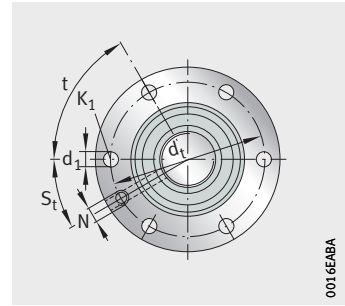


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
180	45	17,5	M16	M8×1	10	22,5	358 800	1 371 100	194,9	-	0,68	0,53	2 000	0,02
							417 300	1 739 400	219,8					
180	45	17,5	M16	M8×1	10	22,5	495 800	2 263 700	252,0	-	0,68	0,53	2 000	0,02
180	45	17,5	M16	M8×1	10	22,5	430 800	1 374 600	122,8	-	0,79	0,74	2 000	0,04
							501 000	1 742 700	138,4					
180	45	17,5	M16	M8×1	10	22,5	595 300	2 266 800	158,7	-	0,79	0,74	2 000	0,04
180	45	17,5	M16	M8×1	10	22,5	479 000	1 378 100	93,7	-	0,83	0,80	2 000	0,07
							551 200	1 717 400	104,8					
180	45	17,5	M16	M8×1	10	22,5	656 200	2 240 400	120,3	-	0,83	0,80	2 000	0,07
180	45	17,5	M16	M8×1	10	22,5	502 800	1 326 000	75,8	-	0,85	0,83	2 000	0,07
							593 700	1 720 700	86,5					
180	45	17,5	M16	M8×1	10	22,5	706 800	2 243 400	99,3	-	0,85	0,83	2 000	0,07
180	45	17,5	M16	M8×1	10	22,5	522 800	1 305 300	57,2	-	0,86	0,84	2 000	0,07
							625 500	1 727 200	66,0					
180	45	17,5	M16	M8×1	10	22,5	744 700	2 249 400	75,8	-	0,86	0,84	2 000	0,07
180	45	17,5	M16	M8×1	10	22,5	539 400	1 359 200	51,6	-	0,86	0,84	2 000	0,07
							613 900	1 662 600	57,2					
180	45	17,5	M16	M8×1	10	22,5	734 600	2 182 600	66,0	-	0,86	0,84	2 000	0,07
180	45	17,5	M16	M8×1	10	22,5	529 400	1 313 500	45,7	-	0,85	0,82	2 000	0,07
							617 000	1 666 400	51,6					
180	45	17,5	M16	M8×1	10	22,5	730 300	2 151 000	59,0	-	0,85	0,82	2 000	0,07

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

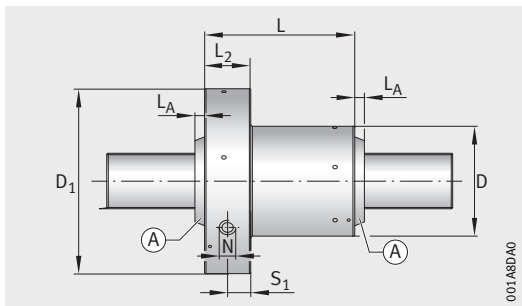
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Dimension table (continued) · Dimensions in mm

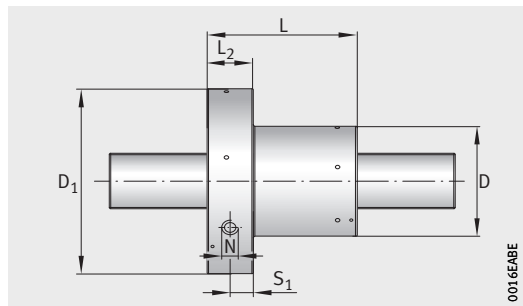
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions				
							D g6	D ₁	L h12	L _A	L ₂
90	RGT-VTM-090.10 RGT-STM-090.10	10	6	A	●	38	175	250	245	7	50
				B	●	41			275	7	
		10	6	C	–	42	175	250	275	–	50
	RGT-VTM-090.15 RGT-STM-090.15	15	6	A	●	38	175	250	245	7	50
				B	●	41			275	7	
		15	6	C	–	42	175	250	275	–	50
	RGT-VTM-090.20 RGT-STM-090.20	20	6	A	●	38	175	250	245	7	50
				B	●	41			275	7	
		20	6	C	–	42	175	250	275	–	50
	RGT-VTM-090.25 RGT-STM-090.25	25	6	A	●	38	175	250	245	7	50
				B	●	41			275	7	
		25	6	C	–	42	175	250	275	–	50

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

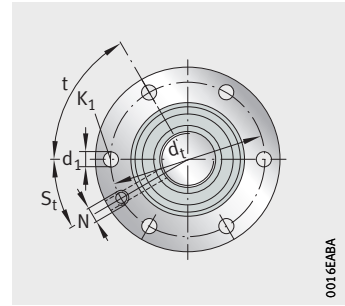


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
210	45	17,5	M16	M8×1	12	22,5	708 700	2 816 000	173,5	-	0,77	0,71	1 700	0,04
							808 400	3 429 800	192,7					
210	45	17,5	M16	M8×1	12	22,5	852 000	3 705 600	200,9	-	0,77	0,71	1 700	0,04
210	45	17,5	M16	M8×1	12	22,5	782 000	2 785 800	131,6	-	0,82	0,78	1 700	0,07
							893 100	3 398 800	146,2					
210	45	17,5	M16	M8×1	12	22,5	947 700	3 708 900	153,3	-	0,82	0,78	1 700	0,07
210	45	17,5	M16	M8×1	12	22,5	849 400	2 823 200	109,3	-	0,85	0,82	1 700	0,07
							969 000	3 436 500	121,4					
210	45	17,5	M16	M8×1	12	22,5	1 021 300	3 712 100	126,5	-	0,85	0,82	1 700	0,07
210	45	17,5	M16	M8×1	12	22,5	855 800	2 793 000	93,6	-	0,86	0,83	1 700	0,07
							974 100	3 388 300	103,8					
210	45	17,5	M16	M8×1	12	22,5	1 023 900	3 646 300	107,9	-	0,86	0,83	1 700	0,07

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

0016EABA

Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
100	RGT-VTM-100.10 RGT-STM-100.10	10	5	A	●	49	200	275	260	10	55
	B			–	51	260			–		
	RGT-VTM-100.20 RGT-STM-100.20	20	5	A	●	49	200	275	260	10	55
	B			–	51	260			–		
	RGT-VTM-100.25 RGT-STM-100.25	25	5	A	●	49	200	275	260	10	55
	B			–	51	260			–		
	RGT-VTM-100.50 RGT-STM-100.50	50	5	A	●	49	200	275	260	10	55
	B			–	51	260			–		
	RGT-VTM-100.12 RGT-STM-100.12	12	6	A	●	29	180	255	195	10	50
	B			–	31	195			–		
	RGT-VTM-100.18 RGT-STM-100.18	18	6	A	●	29	180	255	195	10	50
	B			–	31	195			–		
	RGT-VTM-100.24 RGT-STM-100.24	24	6	A	●	29	180	255	195	10	50
	B			–	31	195			–		

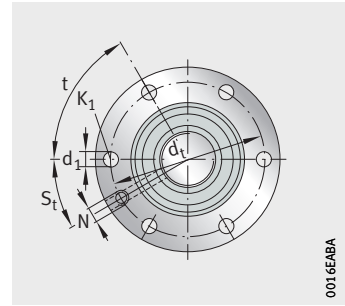
Ⓐ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Maximum axial clearance for non-preloaded nuts RGT-STM.

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

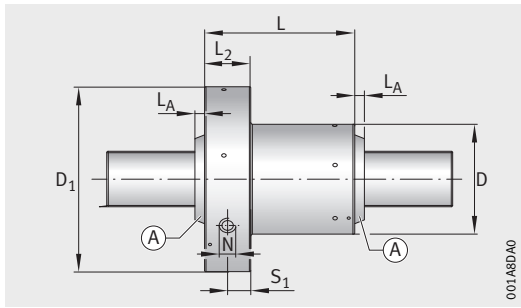
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Dimension table (continued) · Dimensions in mm

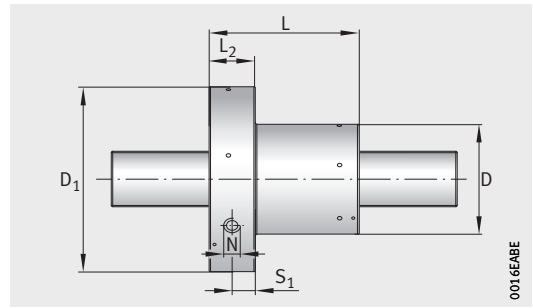
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
120	RGT-VTM-120.20 RGT-STM-120.20	20	5	A	●	87	260	340	280	12	55
				B	–	90			280	–	
		20	5	C	–	102	260	340	330	–	55
	RGT-VTM-120.25 RGT-STM-120.25	25	5	A	●	87	260	340	280	12	55
				B	–	90			280	–	
		25	5	C	–	102	260	340	330	–	55
135	RGT-VTM-135.15 RGT-STM-135.15	15	5	A	●	124	280	370	370	12	60
	RGT-VTM-135.20 RGT-STM-135.20	20	5	A	●	124	280	370	370	12	60
	RGT-VTM-135.30 RGT-STM-135.30	30	5	A	●	124	280	370	370	12	60
150	RGT-VTM-150.25 RGT-STM-150.25	25	5	A	●	185	320	410	412	12	80
	RGT-VTM-150.30 RGT-STM-150.30	30	5	A	●	185	320	410	412	12	80
	RGT-VTM-150.40 RGT-STM-150.40	40	5	A	●	185	320	410	412	12	80

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

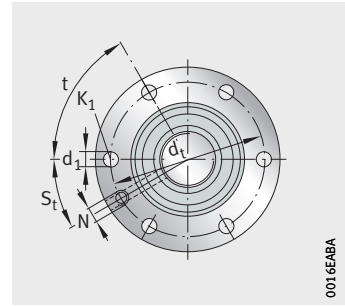


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
305	30	17,5	M16	M12×1,75	10	15	1 196 500	3 942 600	94,4	-	0,82	0,78	1300	0,07
							1 320 900	4 648 900	102,1					
305	30	17,5	M16	M12×1,75	10	15	1 515 600	5 815 500	113,9	-	0,82	0,78	1300	0,07
305	30	17,5	M16	M12×1,75	10	15	1 212 700	3 952 700	81,4	-	0,84	0,81	1300	0,07
							1 338 800	4 658 900	88,0					
305	30	17,5	M16	M12×1,75	10	15	1 523 900	5 751 100	97,5	-	0,84	0,81	1300	0,07
315	30	22	M20	M12×1,75	12	15	1 843 300	8 036 300	159,5	-	0,77	0,71	1200	0,07
315	30	22	M20	M12×1,75	12	15	1 883 100	8 089 200	132,0	-	0,81	0,76	1200	0,07
315	30	22	M20	M12×1,75	12	15	1 904 400	7 941 800	99,7	-	0,85	0,82	1200	0,07
365	30	26	M24	M12×1,75	15	15	2 071 300	9 086 700	118,6	-	0,82	0,78	1000	0,07
365	30	26	M24	M12×1,75	15	15	2 087 600	9 052 400	104,8	-	0,84	0,81	1000	0,07
365	30	26	M24	M12×1,75	15	15	2 122 600	9 076 300	86,5	-	0,86	0,83	1000	0,07

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTM, RGT-STM

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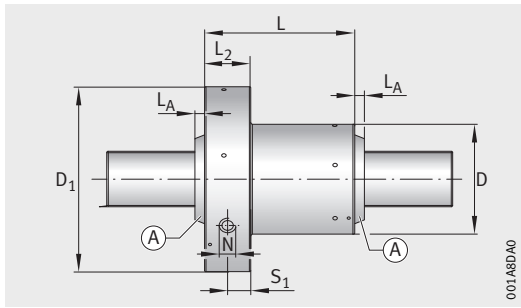
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions				
							D g6	D_1	L h12	L_A	L_2
180	RGT-VTM-180.20 RGT-STM-180.20	20	5	A	–	355	390	470	528	–	90
				B	●	373			558	15	
	RGT-VTM-180.24 RGT-STM-180.24	24	5	A	–	355	390	470	528	–	90
				B	●	373			558	15	
	RGT-VTM-180.25 RGT-STM-180.25	25	5	A	–	355	390	470	528	–	90
				B	●	373			558	15	
	RGT-VTM-180.30 RGT-STM-180.30	30	5	A	–	355	390	470	528	–	90
				B	●	373			558	15	
	RGT-VTM-180.40 RGT-STM-180.40	40	5	A	–	355	390	470	528	–	90
				B	●	373			558	15	
210	RGT-VTM-210.20 RGT-STM-210.20	20	5	A	●	476	440	530	570	20	100
				B	–	490			570	–	
	RGT-VTM-210.25 RGT-STM-210.25	25	5	A	●	476	440	530	570	20	100
				B	–	490			570	–	
	RGT-VTM-210.30 RGT-STM-210.30	30	5	A	●	476	440	530	570	20	100
				B	–	490			570	–	
	RGT-VTM-210.35 RGT-STM-210.35	35	5	A	●	476	440	530	570	20	100
				B	–	490			570	–	
245	RGT-VTM-245.30 RGT-STM-245.30	30	5	A	–	936	550	650	650	–	130
				B	–	1 190			840	–	

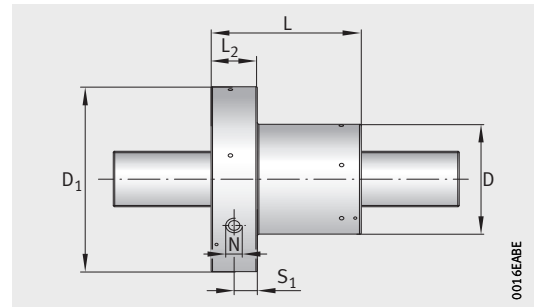
⊗ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Maximum axial clearance for non-preloaded nuts RGT-STM.



With wiper

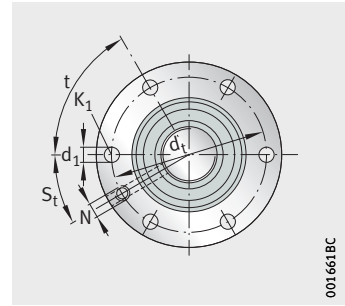


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Fric-tional torque M_V Ncm	Theoretical efficiency		Lim-iting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
433	30	24	M22	M12×1,75	15	15	3 080 900	17 019 600	182,6	-	0,77	0,71	900	0,07
							3 187 300	17 942 900	187,6					
433	30	24	M22	M12×1,75	15	15	3 089 500	16 800 700	160,6	-	0,80	0,75	900	0,07
							3 218 800	17 907 400	165,9					
433	30	24	M22	M12×1,75	15	15	3 104 200	16 860 800	156,6	-	0,80	0,75	900	0,07
							3 239 100	18 014 200	161,9					
433	30	24	M22	M12×1,75	15	15	3 132 600	16 817 000	138,4	-	0,82	0,78	900	0,07
							3 255 500	17 854 100	142,7					
433	30	24	M22	M12×1,75	15	15	3 187 100	16 844 200	114,2	-	0,85	0,82	900	0,10
							3 298 200	17 765 300	117,4					
490	30	26	M24	M12×1,75	15	15	3 482 500	17 564 800	172,9	-	0,75	0,67	700	0,07
							3 741 400	19 653 900	178,9					
490	30	26	M24	M12×1,75	15	15	3 532 800	17 711 400	149,0	-	0,78	0,72	700	0,07
							3 777 800	19 670 500	154,2					
490	30	26	M24	M12×1,75	15	15	3 527 300	17 469 300	131,5	-	0,81	0,76	700	0,07
							3 774 600	19 424 300	135,6					
490	30	26	M24	M12×1,75	15	15	3 533 400	17 357 000	118,6	-	0,82	0,78	700	0,10
							3 823 700	19 637 800	123,0					
600	15	22	M20	M12×1	20	7,5	4 405 100	27 802 400	219,1	-	0,79	0,73	500	0,10
							5 800 000	42 520 300	273,1					

Roller screw drives

Flanged nut, single-piece
Standard design



001661BC

RGT-VTO, RGT-STO

Dimension table · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃	L	L _A	L ₁	L ₂	L ₃
20	RGT-VTO-020.02 RGT-STO-020.02	2	5	A	–	0,6	42	68	41,5	42	55	–	10	18	10
				A	●	0,7					65	–			
				B	–	0,7					65	–			
	RGT-VTO-020.04 RGT-STO-020.04	4	5	A	–	0,6	42	68	41,5	42	55	–	10	18	10
				A	●	0,7					65	–			
				B	–	0,7					65	–			
	RGT-VTO-020.05 RGT-STO-020.05	5	5	A	–	0,6	42	68	41,5	42	55	–	10	18	10
				A	●	0,7					65	–			
				B	–	0,7					65	–			
	RGT-VTO-020.06 RGT-STO-020.06	6	5	A	–	0,6	42	68	41,5	42	55	–	10	18	10
				A	●	0,7					65	–			
				B	–	0,7					65	–			
	RGT-VTO-020.10 RGT-STO-020.10	10	5	A	–	0,6	42	68	41,5	42	55	–	10	18	10
				A	●	0,7					65	–			
				B	–	0,7					65	–			
	RGT-VTO-020.12 RGT-STO-020.12	12	5	A	–	0,6	42	68	41,5	42	55	–	10	18	10
				A	●	0,7					65	–			
				B	–	0,7					65	–			
	RGT-VTO-020.20 RGT-STO-020.20	20	5	A	–	0,6	42	68	41,5	42	55	–	10	18	10
				A	●	0,7					65	–			
				B	–	0,7					65	–			

⊙ Wipers: ● with wiper.

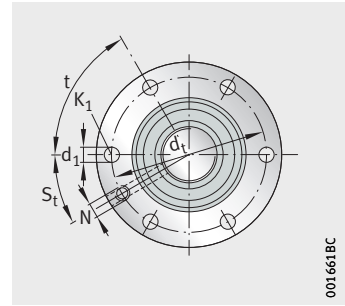
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTO.

3) Maximum axial clearance for non-preloaded nuts RGT-STO.

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

001661BC

Dimension table (continued) · Dimensions in mm

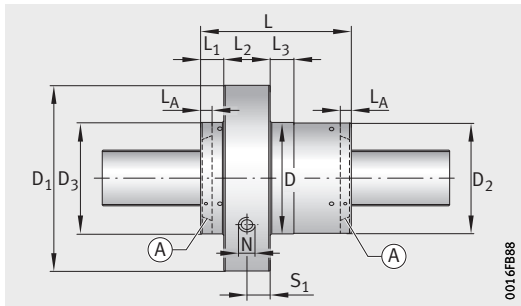
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions								
							D	D_1	D_2	D_3	L	L_A	L_1	L_2	L_3
21	RGT-VTO-021.02 RGT-STO-021.02	2	5	A	●	0,7	45	68	43,5	45	64	–	10	18	10
				B	–	0,7	45	68	43,5	45	64	–	10	18	10
	RGT-VTO-021.04 RGT-STO-021.04	4	5	A	●	0,7	45	68	43,5	45	64	–	10	18	10
				B	–	0,7	45	68	43,5	45	64	–	10	18	10
	RGT-VTO-021.05 RGT-STO-021.05	5	5	A	●	0,7	45	68	43,5	45	64	–	10	18	10
				B	–	0,7	45	68	43,5	45	64	–	10	18	10
	RGT-VTO-021.06 RGT-STO-021.06	6	5	A	●	0,7	45	68	43,5	45	64	–	10	18	10
				B	–	0,7	45	68	43,5	45	64	–	10	18	10
	RGT-VTO-021.10 RGT-STO-021.10	10	5	A	●	0,7	45	68	43,5	45	64	–	10	18	10
				B	–	0,7	45	68	43,5	45	64	–	10	18	10
	RGT-VTO-021.12 RGT-STO-021.12	12	5	A	●	0,7	45	68	43,5	45	64	–	10	18	10
				B	–	0,7	45	68	43,5	45	64	–	10	18	10
	RGT-VTO-021.20 RGT-STO-021.20	20	5	A	●	0,7	45	68	43,5	45	64	–	10	18	10
				B	–	0,7	45	68	43,5	45	64	–	10	18	10

ⓐ Wipers: ● with wiper.

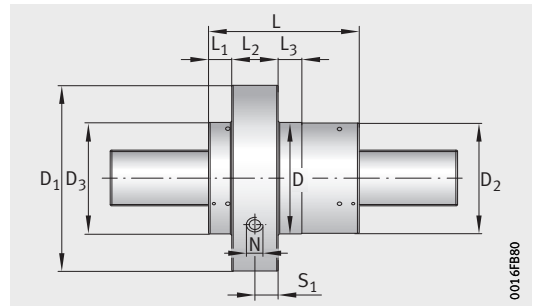
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTO.

3) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

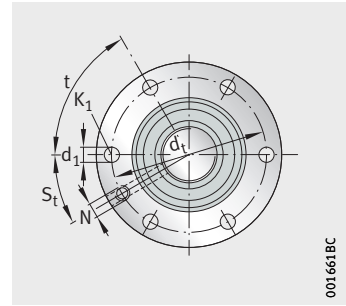


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
56	60	5,5	M5	M6	9	30	43 600	90 200	93,3	20	0,75	0,67	5 200	0,02
							56 800	137 600	114,4					
56	60	5,5	M5	M6	9	30	51 600	90 700	58,8	22	0,83	0,80	5 200	0,02
							66 500	136 100	71,6					
56	60	5,5	M5	M6	9	30	54 500	91 000	50,7	25	0,85	0,82	5 200	0,02
							70 800	138 300	62,1					
56	60	5,5	M5	M6	9	30	56 200	89 400	44,4	30	0,86	0,83	5 200	0,02
							72 600	134 700	54,2					
56	60	5,5	M5	M6	9	30	59 900	83 200	30,4	38	0,86	0,83	5 200	0,04
							79 200	129 900	37,7					
56	60	5,5	M5	M6	9	30	63 000	85 500	27,2	45	0,84	0,81	5 200	0,04
							82 300	130 300	33,4					
56	60	5,5	M5	M6	9	30	55 500	62 800	15,9	60	0,71	0,59	5 200	0,07
							71 100	92 600	19,2					

Roller screw drives

Flanged nut, single-piece
Standard design



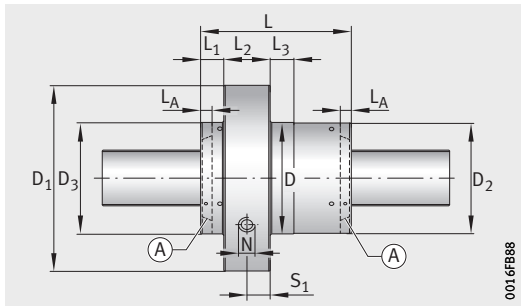
RGT-VTO, RGT-STO

Dimension table (continued) · Dimensions in mm

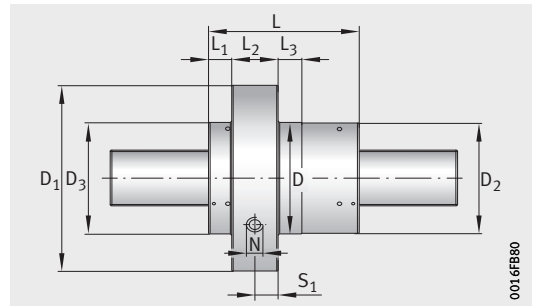
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃	L	L _A	L ₁	L ₂	L ₃
24	RGT-VTO-024.02 RGT-STO-024.02	2	5	A	–	0,8	48	80	47,5	48	55	–	10	20	10
				A	●	0,9					65	–			
				B	–	0,9					65	–			
	RGT-VTO-024.04 RGT-STO-024.04	4	5	A	–	0,8	48	80	47,5	48	55	–	10	20	10
				A	●	0,9					65	–			
				B	–	0,9					65	–			
	RGT-VTO-024.05 RGT-STO-024.05	5	5	A	–	0,8	48	80	47,5	48	55	–	10	20	10
				A	●	0,9					65	–			
				B	–	0,9					65	–			
	RGT-VTO-024.006 RGT-STO-024.006	6	5	A	–	0,8	48	80	47,5	48	55	–	10	20	10
				A	●	0,9					65	–			
				B	–	0,9					65	–			
	RGT-VTO-024.12 RGT-STO-024.12	12	5	A	–	0,8	48	80	47,5	48	55	–	10	20	10
				A	●	0,9					65	–			
				B	–	0,9					65	–			
	RGT-VTO-024.20 RGT-STO-024.20	20	5	A	–	0,8	48	80	47,5	48	55	–	10	20	10
				A	●	0,9					65	–			
				B	–	0,9					65	–			

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTO.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

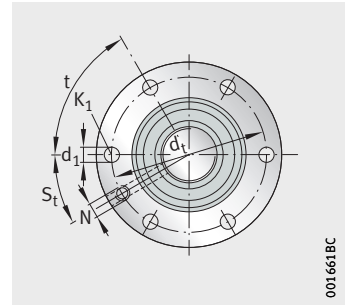


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
66	60	6,5	M6	M6	10	30	42 000	77 400	86,4	24	0,73	0,62	5 000	0,02
							42 000	77 400	86,4					
							60 600	143 200	114,9					
66	60	6,5	M6	M6	10	30	49 600	78 100	54,5	28	0,82	0,78	5 000	0,02
							49 600	78 100	54,5					
							71 700	143 800	72,4					
66	60	6,5	M6	M6	10	30	52 400	78 400	46,9	32	0,84	0,81	5 000	0,02
							52 400	78 400	46,9					
							76 000	145 200	62,6					
66	60	6,5	M6	M6	10	30	54 700	78 700	41,6	50	0,85	0,83	5 000	0,02
							54 700	78 700	41,6					
							77 500	140 100	54,5					
66	60	6,5	M6	M6	10	30	58 500	69 100	24,4	70	0,85	0,83	5 000	0,04
							58 500	69 100	24,4					
							90 700	141 800	34,3					
66	60	6,5	M6	M6	10	30	60 300	64 000	16,5	85	0,77	0,69	5 000	0,07
							60 300	64 000	16,5					
							90 300	122 900	22,6					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

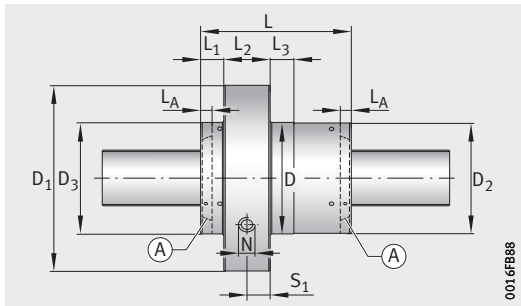
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Dimension table (continued) · Dimensions in mm

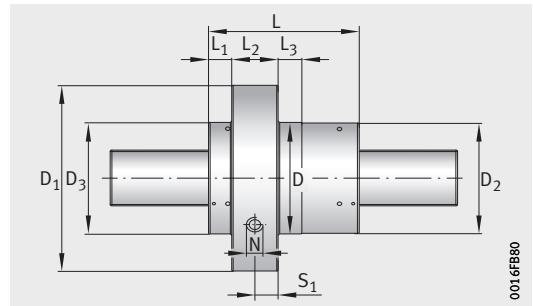
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions								
							D g6	D ₁	D ₂	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂	L ₃
25	RGT-VTO-025.02 RGT-STO-025.02	2	5	A	●	1,3	56	84	55	56	78	-	10	20	10
	B			-	1,3	78					-				
	RGT-VTO-025.04 RGT-STO-025.04	4	5	A	●	1,3	56	84	55	56	78	-	10	20	10
	B			-	1,3	78					-				
	RGT-VTO-025.05 RGT-STO-025.05	5	5	A	●	1,3	56	84	55	56	78	-	10	20	10
	B			-	1,3	78					-				
	RGT-VTO-025.06 RGT-STO-025.06	6	5	A	●	1,3	56	84	55	56	78	-	10	20	10
	B			-	1,3	78					-				
	RGT-VTO-025.12 RGT-STO-025.12	12	5	A	●	1,3	56	84	55	56	78	-	10	20	10
	B			-	1,3	78					-				
	RGT-VTO-025.20 RGT-STO-025.20	20	5	A	●	1,3	56	84	55	56	78	-	10	20	10
	B			-	1,3	78					-				

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTO.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

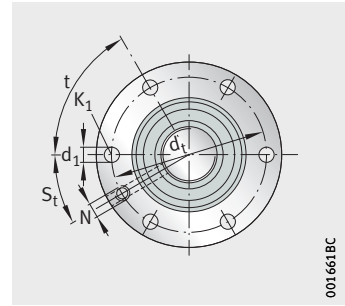


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
70	60	6,5	M6	M6	10	30	60 600	143 200	114,9	26	0,73	0,62	5 000	0,02
							74 500	198 600	134,9					
70	60	6,5	M6	M6	10	30	71 700	143 800	72,4	38	0,82	0,78	5 000	0,02
							87 500	196 900	84,5					
70	60	6,5	M6	M6	10	30	76 000	145 200	62,6	43	0,84	0,81	5 000	0,02
							93 400	200 600	73,5					
70	60	6,5	M6	M6	10	30	77 500	140 100	54,5	58	0,85	0,83	5 000	0,02
							97 200	199 700	64,9					
70	60	6,5	M6	M6	10	30	90 700	141 800	34,3	75	0,85	0,83	5 000	0,04
							111 200	194 600	40,2					
70	60	6,5	M6	M6	10	30	79 000	100 500	19,7	90	0,77	0,69	5 000	0,07
							153 600	103 900	24,4					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

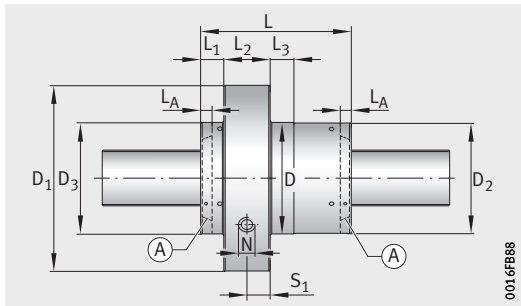
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Dimension table (continued) · Dimensions in mm

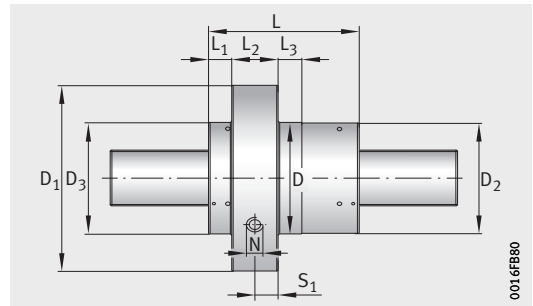
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃	L	L _A	L ₁	L ₂	L ₃
27	RGT-VTO-027.02 RGT-STO-027.02	2	5	A	-	1,1	55	84	54	55	55	-	10	20	10
				A	●	1,2					69	-			15
				B	-	1,2					69	-			15
		2	5	C	-	1,4	55	84	54	55	79	-	10	20	20
				C	●	1,4					79	-			20
				D	-	1,4					79	-			20
	RGT-VTO-027.04 RGT-STO-027.04	4	5	A	-	1,1	55	84	54	55	55	-	10	20	10
				A	●	1,2					69	-			15
				B	-	1,2					69	-			15
		4	5	C	-	1,4	55	84	54	55	79	-	10	20	20
				C	●	1,4					79	-			20
				D	-	1,4					79	-			20
	RGT-VTO-027.05 RGT-STO-027.05	5	5	A	-	1,1	55	84	54	55	55	-	10	20	10
				A	●	1,2					69	-			15
				B	-	1,2					69	-			15
		5	5	C	-	1,4	55	84	54	55	79	-	10	20	20
				C	●	1,4					79	-			20
				D	-	1,4					79	-			20
	RGT-VTO-027.06 RGT-STO-027.06	6	5	A	-	1,1	55	84	54	55	55	-	10	20	10
				A	●	1,2					69	-			15
				B	-	1,2					69	-			15
		6	5	C	-	1,4	55	84	54	55	79	-	10	20	20
				C	●	1,4					79	-			20
				D	-	1,4					79	-			20

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTO.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

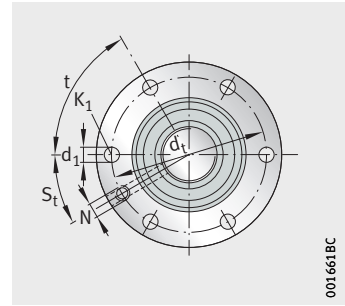


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
70	60	6,5	M6	M6	10	30	45 400	75 900	85,5	28	0,71	0,58	4 900	0,02
							45 400	75 900	85,5					
							68 800	153 500	117,6					
70	60	6,5	M6	M6	10	30	62 300	130 300	108,9	28	0,71	0,58	4 900	0,02
							62 300	130 300	108,9					
							84 800	214 400	138,0					
70	60	6,5	M6	M6	10	30	52 500	74 500	53,2	40	0,81	0,76	4 900	0,02
							52 500	74 500	53,2					
							80 900	154 200	74,1					
70	60	6,5	M6	M6	10	30	73 200	131 000	68,6	40	0,81	0,76	4 900	0,02
							73 200	131 000	68,6					
							99 000	212 500	86,5					
70	60	6,5	M6	M6	10	30	54 400	72 900	45,3	45	0,83	0,80	4 900	0,02
							54 400	72 900	45,3					
							83 600	149 900	62,9					
70	60	6,5	M6	M6	10	30	75 400	126 700	58,2	45	0,83	0,80	4 900	0,02
							75 400	126 700	58,2					
							103 400	210 400	74,1					
70	60	6,5	M6	M6	10	30	58 600	77 300	41,1	60	0,85	0,82	4 900	0,02
							58 600	77 300	41,1					
							87 100	150 200	55,7					
70	60	6,5	M6	M6	10	30	76 900	122 500	50,6	60	0,85	0,82	4 900	0,02
							76 900	122 500	50,6					
							107 000	208 200	65,2					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

001661BC

Dimension table (continued) · Dimensions in mm

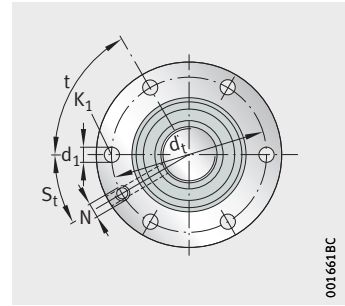
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃	L	L _A	L ₁	L ₂	L ₃
27	RGT-VTO-027.08 RGT-STO-027.08	8	5	A	–	1,1	55	84	54	55	55	–	10	20	10
				A	●	1,2					69	–			15
				B	–	1,2					69	–			15
		8	5	C	–	1,4	55	84	54	55	79	–	10	20	20
				C	●	1,4					79	–			20
				D	–	1,4					79	–			20
	RGT-VTO-027.15 RGT-STO-027.15	15	5	A	–	1,1	55	84	54	55	55	–	10	20	10
				A	●	1,2					69	–			15
				B	–	1,2					69	–			15
		15	5	C	–	1,4	55	84	54	55	79	–	10	20	20
				C	●	1,4					79	–			20
				D	–	1,4					79	–			20
	RGT-VTO-027.25 RGT-STO-027.25	25	5	B	–	1,2	55	84	54	55	69	–	10	20	15
				C	–	1,4					79	–			20
		25	5	C	●	1,4	55	84	54	55	79	–	10	20	20
D				–	1,4	79					–	20			

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTO.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STO.

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

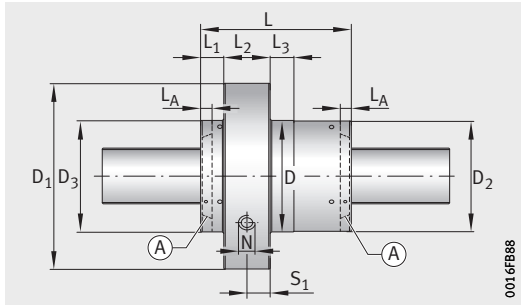
001661BC

Dimension table (continued) · Dimensions in mm

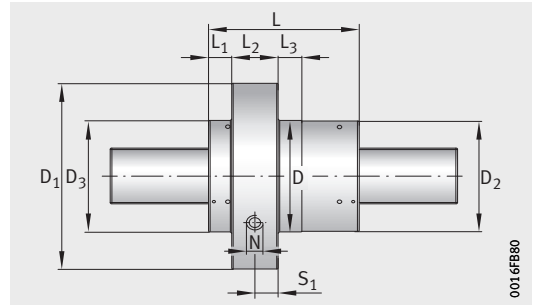
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃	L	L _A	L ₁	L ₂	L ₃
30	RGT-VTO-030.02 RGT-STO-030.02	2	5	A	–	1,7	62	97	61	62	55	–	5	27	15
				A	●	1,9					69	–	12		
				B	–	1,9					69	–	12		
		2	5	C	–	2,1	64	97	63	64	85	–	12	27	15
				C	●	2,1					85	–	12		
				D	–	2,1					85	–	12		
	RGT-VTO-030.04 RGT-STO-030.04	4	5	A	–	1,7	62	97	61	62	55	–	5	27	15
				A	●	1,9					69	–	12		
				B	–	1,9					69	–	12		
		4	5	C	–	2,1	64	97	63	64	85	–	12	27	15
				C	●	2,1					85	–	12		
				D	–	2,1					85	–	12		
	RGT-VTO-030.05 RGT-STO-030.05	5	5	A	–	1,7	62	97	61	62	55	–	5	27	15
				A	●	1,9					69	–	12		
				B	–	1,9					69	–	12		
		5	5	C	–	2,1	64	97	63	64	85	–	12	27	15
				C	●	2,1					85	–	12		
				D	–	2,1					85	–	12		
	RGT-VTO-030.06 RGT-STO-030.06	6	5	A	–	1,7	62	97	61	62	55	–	5	27	15
				A	●	1,9					69	–	12		
				B	–	1,9					69	–	12		
		6	5	C	–	2,1	64	97	63	64	85	–	12	27	15
				C	●	2,1					85	–	12		
				D	–	2,1					85	–	12		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTO.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

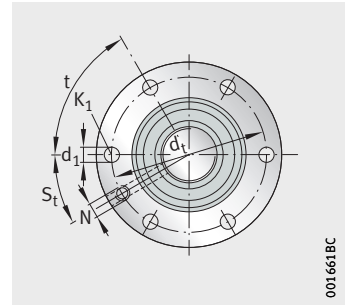


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
81	60	9	M8	M6	13,5	30	49 300	75 200	85,1	30	0,69	0,54	4 700	0,02
							49 300	75 200	85,1					
							76 000	157 900	118,1					
81	60	9	M8	M6	13,5	30	79 700	170 700	122,5	30	0,69	0,54	4 700	0,02
							79 700	170 700	122,5					
							102 900	256 300	148,6					
81	60	9	M8	M6	13,5	30	56 600	73 900	52,9	45	0,80	0,75	4 700	0,02
							56 600	73 900	52,9					
							88 700	158 700	74,4					
81	60	9	M8	M6	13,5	30	92 200	168 900	76,6	45	0,80	0,75	4 700	0,02
							92 200	168 900	76,6					
							119 300	254 300	93,1					
81	60	9	M8	M6	13,5	30	60 400	76 400	46,2	55	0,82	0,78	4 700	0,02
							60 400	76 400	46,2					
							93 200	159 100	64,1					
81	60	9	M8	M6	13,5	30	97 800	171 800	66,5	55	0,82	0,78	4 700	0,02
							97 800	171 800	66,5					
							126 700	258 800	80,9					
81	60	9	M8	M6	13,5	30	61 900	74 600	40,4	70	0,84	0,81	4 700	0,02
							61 900	74 600	40,4					
							97 100	159 400	56,8					
81	60	9	M8	M6	13,5	30	99 900	167 100	58,0	70	0,84	0,81	4 700	0,02
							99 900	167 100	58,0					
							130 500	255 000	71,1					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

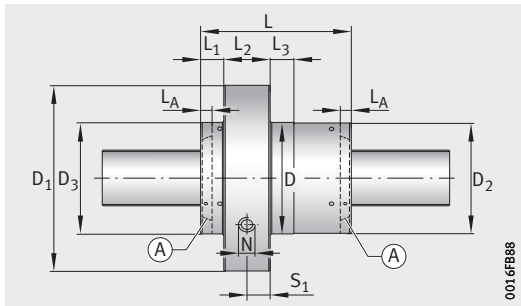
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Dimension table (continued) · Dimensions in mm

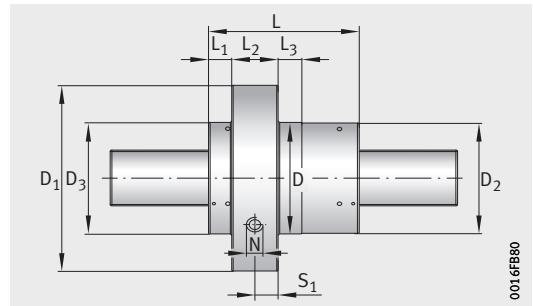
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions								
							D g6	D ₁	D ₂	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂	L ₃
30	RGT-VTO-030.08 RGT-STO-030.08	8	5	A	–	1,7	62	97	61	62	55	–	5	27	15
				A	●	1,9					69	–	12		
				B	–	1,9					69	–	12		
		8	5	C	–	2,1	64	97	63	64	85	–	12	27	15
				C	●	2,1					85	–	12		
				D	–	2,1					85	–	12		
	RGT-VTO-030.10 RGT-STO-030.10	10	5	A	–	1,7	62	97	61	62	55	–	5	27	15
				A	●	1,9					69	–	12		
				B	–	1,9					69	–	12		
		10	5	C	–	2,1	64	97	63	64	85	–	12	27	15
				C	●	2,1					85	–	12		
				D	–	2,1					85	–	12		
RGT-VTO-030.20 RGT-STO-030.20	20	5	A	–	1,7	62	97	61	62	55	–	5	27	15	
			A	●	1,9					69	–	12			
			B	–	1,9					69	–	12			
	20	5	C	–	2,1	64	97	63	64	85	–	12	27	15	
			C	●	2,1					85	–	12			
			D	–	2,1					85	–	12			

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTO.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

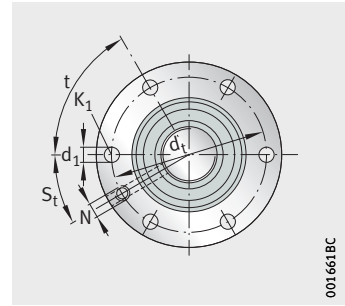


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
81	60	9	M8	M6	13,5	30	63 800	71 100	32,5	80	0,86	0,83	4 700	0,02
							63 800	71 100	32,5					
							101 300	155 200	46,2					
81	60	9	M8	M6	13,5	30	105 400	165 300	47,6	80	0,86	0,83	4 700	0,02
							105 400	165 300	47,6					
							137 000	250 200	58,0					
81	60	9	M8	M6	13,5	30	64 600	67 700	27,3	100	0,86	0,84	4 700	0,04
							64 600	67 700	27,3					
							103 000	148 400	38,9					
81	60	9	M8	M6	13,5	30	113 600	173 700	41,9	100	0,86	0,84	4 700	0,04
							113 600	173 700	41,9					
							144 700	253 700	50,3					
81	60	9	M8	M6	13,5	30	73 900	71 100	17,2	140	0,82	0,78	4 700	0,07
							73 900	71 100	17,2					
							123 900	164 600	25,4					
81	60	9	M8	M6	13,5	30	123 900	164 600	25,4	140	0,82	0,78	4 700	0,07
							123 900	164 600	25,4					
							159 600	243 500	30,8					

Roller screw drives

Flanged nut, single-piece
Standard design



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RGT-VTO, RGT-STO

Dimension table (continued) · Dimensions in mm

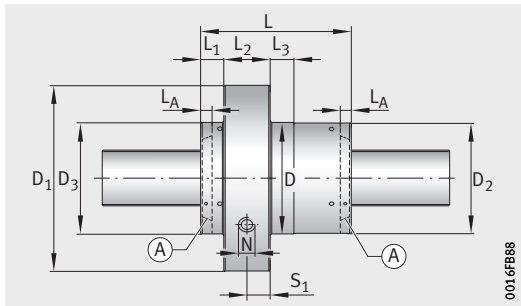
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions								
							D g6	D ₁	D ₂	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂	L ₃
36	RGT-VTO-036.02 RGT-STO-036.02	2	5	A	–	2,3	75	110	74	75	68	–	12	25	15
				A	●	2,6					82	–			
				B	–	2,6					82	–			
	RGT-VTO-036.04 RGT-STO-036.04	4	5	A	–	2,3	75	110	74	75	68	–	12	25	15
				A	●	2,6					82	–			
				B	–	2,6					82	–			
	RGT-VTO-036.05 RGT-STO-036.05	5	5	A	–	2,3	75	110	74	75	68	–	12	25	15
				A	●	2,6					82	–			
				B	–	2,6					82	–			
	RGT-VTO-036.06 RGT-STO-036.06	6	5	A	–	2,3	75	110	74	75	68	–	12	25	15
				A	●	2,6					82	–			
				B	–	2,6					82	–			
	RGT-VTO-036.08 RGT-STO-036.08	8	5	A	–	2,3	75	110	74	75	68	–	12	25	15
				A	●	2,6					82	–			
				B	–	2,6					82	–			
	RGT-VTO-036.10 RGT-STO-036.10	10	5	A	–	2,3	75	110	74	75	68	–	12	25	15
				A	●	2,6					82	–			
				B	–	2,6					82	–			
	RGT-VTO-036.20 RGT-STO-036.20	20	5	A	–	2,3	75	110	74	75	68	–	12	25	15
				A	●	2,6					82	–			
				B	–	2,6					82	–			
	RGT-VTO-036.25 RGT-STO-036.25	25	5	A	–	2,3	75	110	74	75	68	–	12	25	15
				A	●	2,6					82	–			
				B	–	2,6					82	–			
	RGT-VTO-036.30 RGT-STO-036.30	30	5	A	–	2,3	75	110	74	75	68	–	12	25	15
				A	●	2,6					82	–			
				B	–	2,6					82	–			

⊗ Wipers: ● with wiper.

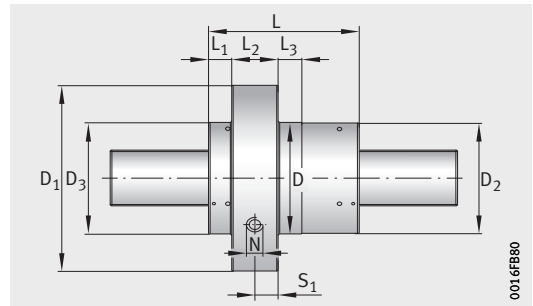
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTO.

3) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

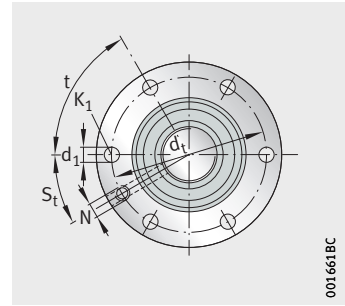


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t	d_1	K_1	N	S_1	S_t	dyn. C N	stat. C_0 N			η_1	η_2		
92	60	9	M8	M6	12,5	30	70 400	131 900	107,9	45	0,65	0,46	4 400	0,02
							70 400	131 900	107,9					
							98 200	233 300	139,2					
92	60	9	M8	M6	12,5	30	81 800	130 100	67,3	60	0,77	0,71	4 400	0,02
							81 800	130 100	67,3					
							115 500	234 200	87,7					
92	60	9	M8	M6	12,5	30	87 200	133 300	58,6	70	0,80	0,75	4 400	0,02
							87 200	133 300	58,6					
							121 600	234 700	75,6					
92	60	9	M8	M6	12,5	30	90 900	133 700	51,9	80	0,82	0,78	4 400	0,02
							90 900	133 700	51,9					
							124 900	229 100	66,1					
92	60	9	M8	M6	12,5	30	93 800	126 600	41,7	100	0,85	0,82	4 400	0,02
							93 800	126 600	41,7					
							133 400	230 000	54,6					
92	60	9	M8	M6	12,5	30	96 200	122 200	35,2	120	0,86	0,83	4 400	0,04
							96 200	122 200	35,2					
							137 000	221 800	46,2					
92	60	9	M8	M6	12,5	30	111 600	126 500	22,2	160	0,85	0,82	4 400	0,07
							111 600	126 500	22,2					
							152 100	211 200	28,1					
92	60	9	M8	M6	12,5	30	105 300	109 100	17,7	180	0,81	0,77	4 400	0,07
							105 300	109 100	17,7					
							158 500	213 400	24,3					
92	60	9	M8	M6	12,5	30	127 100	144 000	17,7	200	0,77	0,69	4 400	0,07
							127 100	144 000	17,7					
							170 300	230 400	22,2					

Roller screw drives

Flanged nut, single-piece
Standard design



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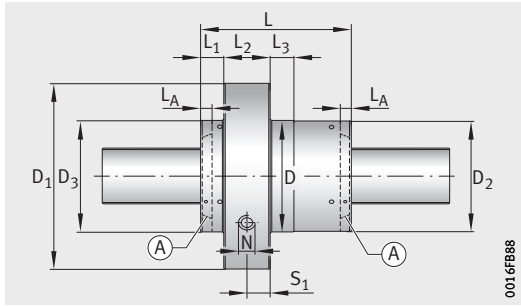
RGT-VTO, RGT-STO

Dimension table (continued) · Dimensions in mm

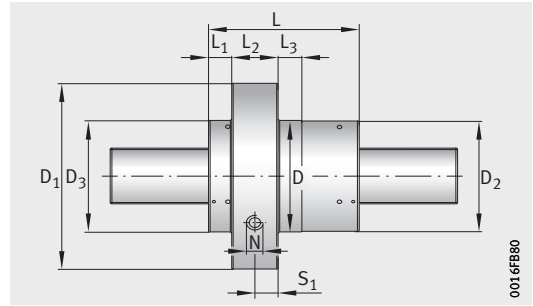
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃	L	L _A	L ₁	L ₂	L ₃
39	RGT-VTO-039.02 RGT-STO-039.02	2	5	A	-	3,8	80	124	79	80	72	-	13	33	18
				A	●	3,8					90	-			
				B	-	3,8					90	-			
		2	5	C	-	4,0	82	124	81	82	100	-	13	33	18
				C	●	4,0					100	-			
				D	-	4,0					100	-			
	RGT-VTO-039.04 RGT-STO-039.04	4	5	A	-	3,8	80	124	79	80	72	-	13	33	18
				A	●	3,8					90	-			
				B	-	3,8					90	-			
		4	5	C	-	4,0	82	124	81	82	100	-	13	33	18
				C	●	4,0					100	-			
				D	-	4,0					100	-			
RGT-VTO-039.05 RGT-STO-039.05	5	5	A	-	3,8	80	124	79	80	72	-	13	33	18	
			A	●	3,8					90	-				
			B	-	3,8					90	-				
	5	5	C	-	4,0	82	124	81	82	100	-	13	33	18	
			C	●	4,0					100	-				
			D	-	4,0					100	-				
RGT-VTO-039.10 RGT-STO-039.10	10	5	A	-	3,8	80	124	79	80	72	-	13	33	18	
			A	●	3,8					90	-				
			B	-	3,8					90	-				
	10	5	C	-	4,0	82	124	81	82	100	-	13	33	18	
			C	●	4,0					100	-				
			D	-	4,0					100	-				

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTO.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

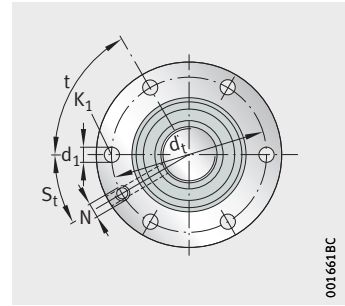


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
102	60	11	M10	M6	16,5	30	84 000	156 900	116,0	80	0,63	0,42	4 200	0,02
							84 000	156 900	116,0					
							123 500	299 900	155,3					
102	60	11	M10	M6	16,5	30	114 900	266 500	147,1	80	0,63	0,42	4 200	0,02
							114 900	266 500	147,1					
							144 600	386 300	175,1					
102	60	11	M10	M6	16,5	30	98 100	157 900	73,1	95	0,76	0,69	4 200	0,02
							98 100	157 900	73,1					
							143 200	297 600	97,3					
102	60	11	M10	M6	16,5	30	133 200	264 300	92,1	95	0,76	0,69	4 200	0,02
							133 200	264 300	92,1					
							168 900	387 200	110,3					
102	60	11	M10	M6	16,5	30	100 900	152 600	62,0	110	0,79	0,74	4 200	0,02
							100 900	152 600	62,0					
							149 500	294 700	83,4					
102	60	11	M10	M6	16,5	30	138 900	261 500	78,9	110	0,79	0,74	4 200	0,02
							138 900	261 500	78,9					
							175 500	380 700	94,2					
102	60	11	M10	M6	16,5	30	117 600	155 000	39,0	170	0,85	0,83	4 200	0,04
							117 600	155 000	39,0					
							174 200	297 200	52,6					
102	60	11	M10	M6	16,5	30	161 800	264 000	49,7	170	0,85	0,83	4 200	0,04
							161 800	264 000	49,7					
							204 500	383 100	59,4					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

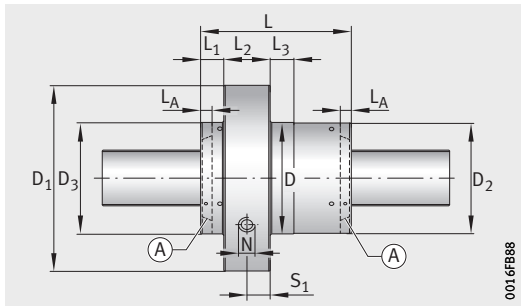
001661BC

Dimension table (continued) · Dimensions in mm

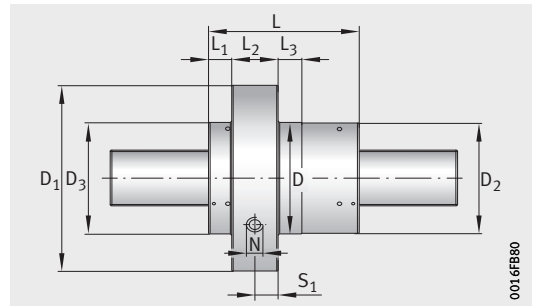
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃	L	L _A	L ₁	L ₂	L ₃
39	RGT-VTO-039.20 RGT-STO-039.20	20	5	A	–	3,8	80	124	79	80	72	–	13	33	18
				A	●	3,8					90	–			
				B	–	3,8					90	–			
		20	5	C	–	4,0	82	124	81	82	100	–	13	33	18
				C	●	4,0					100	–			
				D	–	4,0					100	–			
	RGT-VTO-039.30 RGT-STO-039.30	30	5	A	–	3,8	80	124	79	80	72	–	13	33	18
				A	●	3,8					90	–			
				B	–	3,8					90	–			
		30	5	C	–	4,0	82	124	81	82	100	–	13	33	18
				C	●	4,0					100	–			
				D	–	4,0					100	–			

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTO.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

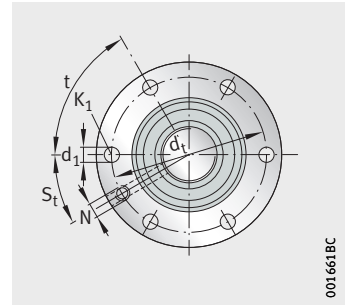


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
102	60	11	M10	M6	16,5	30	135 700	159 800	24,6	240	0,85	0,83	4 200	0,07
							135 700	159 800	24,6					
							193 800	285 300	32,2					
102	60	11	M10	M6	16,5	30	179 500	252 500	30,4	240	0,85	0,83	4 200	0,07
							179 500	252 500	30,4					
							235 900	387 800	37,4					
102	60	11	M10	M6	16,5	30	136 800	149 800	18,0	300	0,79	0,74	4 200	0,07
							136 800	149 800	18,0					
							206 800	289 900	24,6					
102	60	11	M10	M6	16,5	30	183 900	241 000	22,5	300	0,79	0,74	4 200	0,07
							183 900	241 000	22,5					
							229 400	340 400	26,6					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

001661BC

Dimension table (continued) · Dimensions in mm

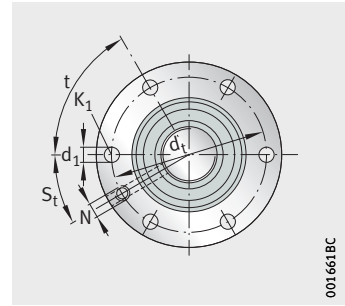
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃	L	L _A	L ₁	L ₂	L ₃
44	RGT-VTO-044.12 RGT-STO-044.12	12	6	A	●	3,8	82	124	81	82	90	–	12	33	18
	B			–	3,8	90					–				
	RGT-VTO-044.24 RGT-STO-044.24	24	6	A	●	3,8	82	124	81	82	90	–	12	33	18
	B			–	3,8	90					–				
	RGT-VTO-044.30 RGT-STO-044.30	30	6	A	●	3,8	82	124	81	82	90	–	12	33	18
	B			–	3,8	90					–				
	RGT-VTO-044.36 RGT-STO-044.36	36	6	A	●	3,8	82	124	81	82	90	–	12	33	18
	B			–	3,8	90					–				
	RGT-VTO-044.42 RGT-STO-044.42	42	6	A	●	3,8	82	124	81	82	90	–	12	33	18
	B			–	3,8	90					–				

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTO.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STO.

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

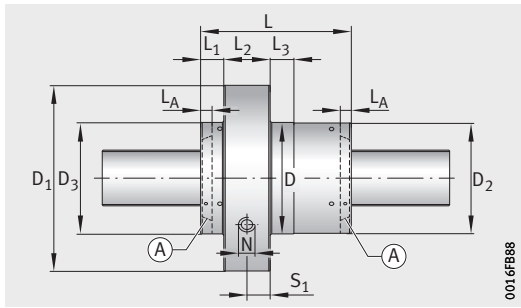
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Dimension table (continued) · Dimensions in mm

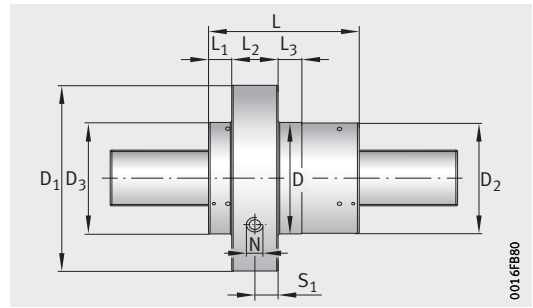
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions								
							D g6	D ₁	D ₂	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂	L ₃
48	RGT-VTO-048.05 RGT-STO-048.05	5	5	A	–	5,5	96	150	95	96	95	–	15	37	20
				A	●	6,0					113	–			
				B	–	6,0					113	–			
		5	5	C	–	7,6	105	150	104	105	127	–	15	37	20
				C	●	7,6					127	–			
				D	–	7,6					127	–			
	RGT-VTO-048.10 RGT-STO-048.10	10	5	A	–	5,5	96	150	95	96	95	–	15	37	20
				A	●	6,0					113	–			
				B	–	6,0					113	–			
		10	5	C	–	7,6	105	150	104	105	127	–	15	37	20
				C	●	7,6					127	–			
				D	–	7,6					127	–			
RGT-VTO-048.20 RGT-STO-048.20	20	5	A	–	5,5	96	150	95	96	95	–	15	37	20	
			A	●	6,0					113	–				
			B	–	6,0					113	–				
	20	5	C	–	7,6	105	150	104	105	127	–	15	37	20	
			C	●	7,6					127	–				
			D	–	7,6					127	–				

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTO.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

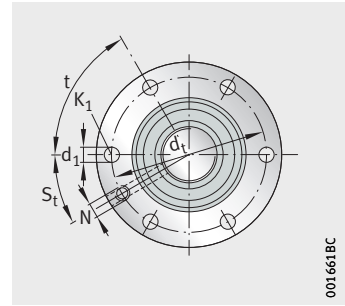


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t	d_1	K_1	N	S_1	S_t	dyn. C N	stat. C ₀ N			η_1	η_2		
127	60	13	M12	M8×1	18,5	30	165 300	349 300	89,8	180	0,76	0,69	3 800	0,02
							165 300	349 300	89,8					
							213 400	534 600	109,5					
127	60	13	M12	M8×1	18,5	30	202 900	492 200	105,3	180	0,76	0,69	3 800	0,02
							202 900	492 200	105,3					
							249 600	687 200	123,7					
127	60	13	M12	M8×1	18,5	30	188 900	332 800	55,1	200	0,84	0,81	3 800	0,02
							188 900	332 800	55,1					
							246 100	516 400	67,7					
127	60	13	M12	M8×1	18,5	30	233 600	474 300	65,0	200	0,84	0,81	3 800	0,02
							233 600	474 300	65,0					
							289 100	668 000	76,7					
127	60	13	M12	M8×1	18,5	30	214 300	319 500	33,8	280	0,86	0,84	3 800	0,07
							214 300	319 500	33,8					
							289 200	522 300	42,6					
127	60	13	M12	M8×1	18,5	30	274 500	480 300	40,9	280	0,86	0,84	3 800	0,07
							274 500	480 300	40,9					
							332 500	651 700	47,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

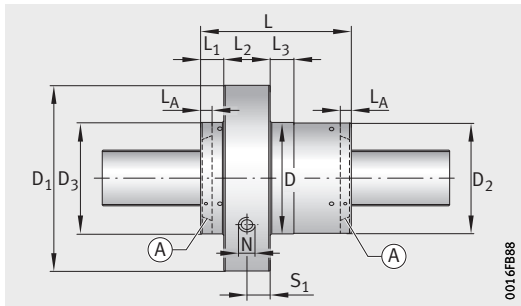
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Dimension table (continued) · Dimensions in mm

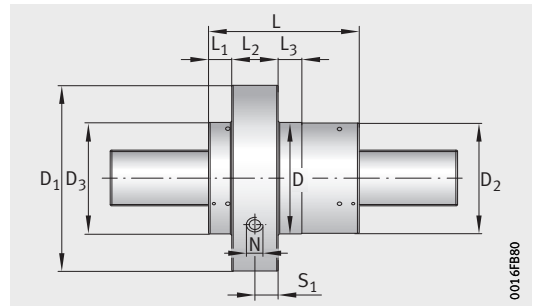
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃	L	L _A	L ₁	L ₂	L ₃
48	RGT-VTO-048.30 ⁴⁾ RGT-STO-048.30 ⁴⁾	30	5	A	–	5,5	96	150	95	96	95	–	15	37	20
				A	●	6,0					113	–			
				B	–	6,0					113	–			
		30	5	C	–	7,6	105	150	104	105	127	–	15	37	20
				C	●	7,6					127	–			
				D	–	7,6					127	–			
	RGT-VTO-048.40 RGT-STO-048.40	40	5	A	–	5,5	96	150	95	96	95	–	15	37	20
				A	●	6,0					113	–			
				B	–	6,0					113	–			
		40	5	C	–	7,6	105	150	104	105	127	–	15	37	20
				C	●	7,6					127	–			
				D	–	7,6					127	–			

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTO.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STO.
- 4) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 268.



With wiper

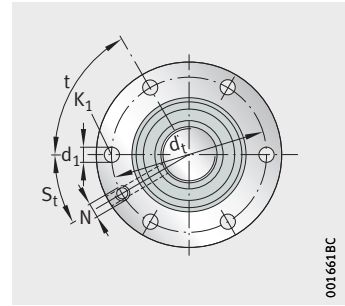


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Fric-tional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
127	60	13	M12	M8×1	18,5	30	222 700	325 300	25,8	340	0,83	0,80	3 800	0,07
							222 700	325 300	25,8					
							292 900	506 900	31,9					
127	60	13	M12	M8×1	18,5	30	269 800	444 700	29,9	340	0,83	0,80	3 800	0,07
							269 800	444 700	29,9					
							338 100	635 400	35,7					
127	60	13	M12	M8×1	18,5	30	221 300	330 900	21,3	420	0,77	0,69	3 800	0,07
							221 300	330 900	21,3					
							283 400	491 600	25,8					
127	60	13	M12	M8×1	18,5	30	283 400	491 600	25,8	420	0,77	0,69	3 800	0,07
							283 400	491 600	25,8					
							343 300	662 700	29,9					

Roller screw drives

Flanged nut, single-piece
Standard design



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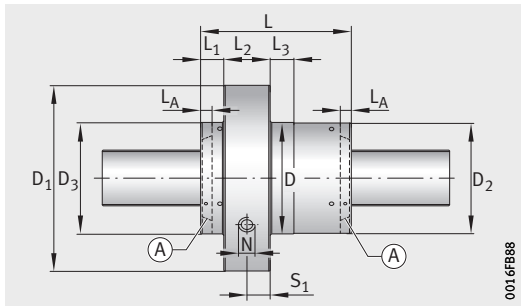
RGT-VTO, RGT-STO

Dimension table (continued) · Dimensions in mm

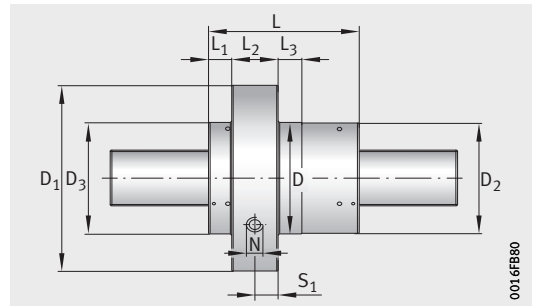
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃	L	L _A	L ₁	L ₂	L ₃
48	RGT-VTO-048.06 RGT-STO-048.06	6	6	A	–	4,5	86	122	85	86	94	–	15	35	20
				A	●	5,0					104				
	RGT-VTO-048.12 RGT-STO-048.12	12	6	A	–	4,5	86	122	85	86	94	–	15	35	20
				A	●	5,0					104				
	RGT-VTO-048.18 RGT-STO-048.18	18	6	A	–	4,5	86	122	85	86	94	–	15	35	20
				A	●	5,0					104				
	RGT-VTO-048.30 ⁴⁾ RGT-STO-048.30 ⁴⁾	30	6	A	–	4,5	86	122	85	86	94	–	15	35	20
				A	●	5,0					104				

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTO.
- 3) Maximum axial clearance for non-preloaded nuts RGT-STO.
- 4) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 266.



With wiper

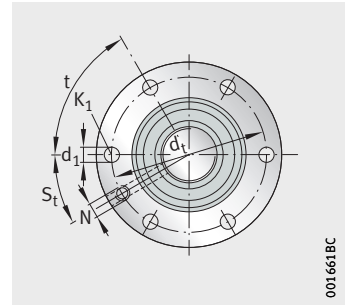


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed η_G min^{-1}	Axial clearance ³⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
104	45	11	M10	M8×1	17,5	22,5	147 200	333 900	91,1	200	0,79	0,73	3 800	0,04
							147 200	333 900	91,1					
104	45	11	M10	M8×1	17,5	22,5	170 800	327 000	56,6	250	0,85	0,83	3 800	0,07
							170 800	327 000	56,6					
104	45	11	M10	M8×1	17,5	22,5	187 600	329 700	43,2	280	0,86	0,84	3 800	0,07
							187 600	329 700	43,2					
104	45	11	M10	M8×1	17,5	22,5	197 900	306 600	29,4	380	0,83	0,80	3 800	0,07
							197 900	306 600	29,4					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

001661BC

Dimension table (continued) · Dimensions in mm

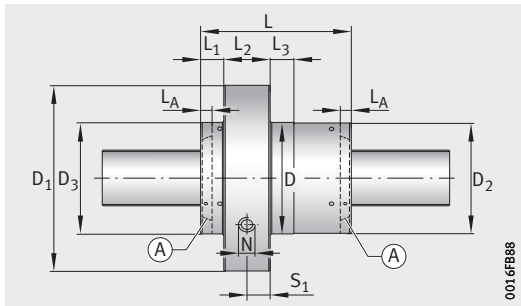
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions								
							D g6	D ₁	D ₂	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂	L ₃
56	RGT-VTO-056.12	12	6	A	●	6,8	105	150	104	105	112	-	15	37	20
	RGT-STO-056.12			B	-	6,8					112	-			
	RGT-VTO-056.24	24	6	A	●	6,8	105	150	104	105	112	-	15	37	20
	RGT-STO-056.24			B	-	6,8					112	-			
	RGT-VTO-056.30	30	6	A	●	6,8	105	150	104	105	112	-	15	37	20
	RGT-STO-056.30			B	-	6,8					112	-			
	RGT-VTO-056.36	36	6	A	●	6,8	105	150	104	105	112	-	15	37	20
	RGT-STO-056.36			B	-	6,8					112	-			

⊙ Wipers: ● with wiper.

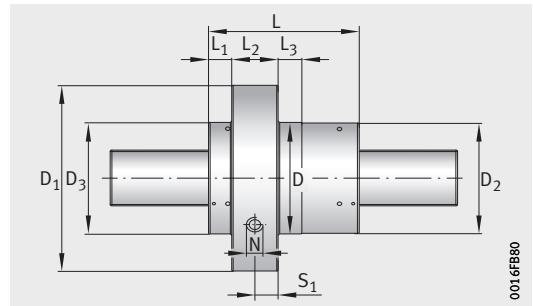
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTO.

3) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

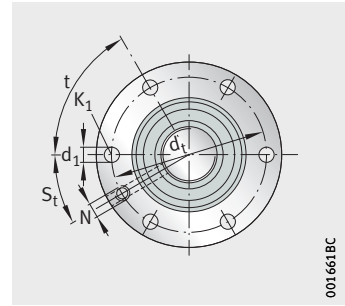


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ³⁾
d_t	t_o	d_1	K_1	N	S_1	S_t	dyn. C N	stat. C ₀ N			η_1	η_2		
127	60	13	M12	M8×1	18,5	30	195 300	335 400	56,7	320	0,84	0,81	3 500	0,04
							261 200	534 700	70,6					
127	60	13	M12	M8×1	18,5	30	217 600	320 800	34,7	400	0,86	0,84	3 500	0,07
							302 500	540 900	44,5					
127	60	13	M12	M8×1	18,5	30	231 700	334 400	30,3	480	0,85	0,82	3 500	0,07
							320 300	555 400	38,7					
127	60	13	M12	M8×1	18,5	30	220 900	306 300	25,6	560	0,83	0,79	3 500	0,07
							302 400	501 300	32,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

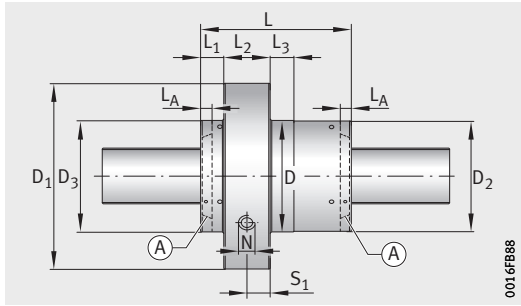
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Dimension table (continued) · Dimensions in mm

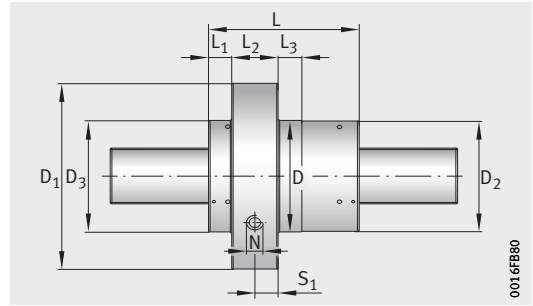
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions								
							D	D_1	D_2	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2	L_3
63	RGT-VTO-063.05 RGT-STO-063.05	5	5	A	–	10,7	118	180	117	118	115	–	17	45	25
				A	●	11,6	118		117	118	133	–			
		5	5	C	–	13,0	122	180	121	122	152	–	17	45	25
				C	●	13,0	122		121	122	152	–			
				D	–	13,4	122		121	122	152	–			
				D	●	13,4	122		121	122	152	–			
	RGT-VTO-063.10 ³⁾ RGT-STO-063.10 ³⁾	10	5	A	–	10,7	118	180	117	118	115	–	17	45	25
				A	●	11,6	118		117	118	133	–			
		10	5	C	–	13,0	122	180	121	122	152	–	17	45	25
				C	●	13,0	122		121	122	152	–			
				D	–	13,4	122		121	122	152	–			
				D	●	13,4	122		121	122	152	–			
	RGT-VTO-063.15 RGT-STO-063.15	15	5	A	–	10,7	118	180	117	118	115	–	17	45	25
				A	●	11,6	118		117	118	133	–			
		15	5	C	–	13,0	122	180	121	122	152	–	17	45	25
				C	●	13,0	122		121	122	152	–			
				D	–	13,4	122		121	122	152	–			
				D	●	13,4	122		121	122	152	–			
	RGT-VTO-063.20 RGT-STO-063.20	20	5	A	–	10,7	118	180	117	118	115	–	17	45	25
				A	●	11,6	118		117	122	133	–			
		20	5	C	–	13,0	122	180	121	122	152	–	17	45	25
				C	●	13,0	122		121	122	152	–			
				D	–	13,4	122		121	122	152	–			
				D	●	13,4	122		121	122	152	–			
RGT-VTO-063.30 RGT-STO-063.30	30	5	A	–	10,7	118	180	117	118	115	–	17	45	25	
			A	●	11,6	118		117	118	133	–				
	30	5	C	–	13,0	122	180	121	122	152	–	17	45	25	
			C	●	13,0	122		121	122	152	–				
			D	–	13,4	122		121	122	152	–				
			D	●	13,4	122		121	122	152	–				

⊗ Wipers: ● with wiper.

- Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- Maximum axial clearance for non-preloaded nuts RGT-STO.
- This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 276.



With wiper

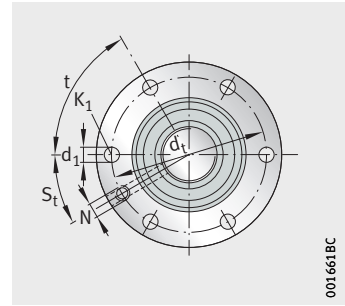


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^2/3/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
150	60	17,5	M16	M8×1	22,5	30	248 700	508 400	105,1	-	0,72	0,61	3 000	0,02
							248 700	508 400	105,1					
150	60	17,5	M16	M8×1	22,5	30	315 800	756 100	126,0	-	0,72	0,61	3 000	0,02
							315 800	756 100	126,0					
							380 800	1 020 500	145,2					
150	60	17,5	M16	M8×1	22,5	30	286 100	500 000	65,5	-	0,82	0,78	3 000	0,04
							286 100	500 000	65,5					
150	60	17,5	M16	M8×1	22,5	30	368 500	760 100	79,4	-	0,82	0,78	3 000	0,04
							368 500	760 100	79,4					
							440 600	1 010 200	90,9					
150	60	17,5	M16	M8×1	22,5	30	312 800	504 100	50,0	-	0,85	0,82	3 000	0,07
							312 800	504 100	50,0					
150	60	17,5	M16	M8×1	22,5	30	394 000	737 200	59,6	-	0,85	0,82	3 000	0,07
							394 000	737 200	59,6					
							486 000	1 028 300	69,8					
150	60	17,5	M16	M8×1	22,5	30	326 200	508 000	41,3	-	0,86	0,84	3 000	0,07
							326 200	508 000	41,3					
150	60	17,5	M16	M8×1	22,5	30	401 600	714 400	48,3	-	0,86	0,84	3 000	0,07
							401 600	714 400	48,3					
							493 200	989 600	56,5					
150	60	17,5	M16	M8×1	22,5	30	326 700	515 800	31,5	-	0,86	0,83	3 000	0,07
							326 700	515 800	31,5					
150	60	17,5	M16	M8×1	22,5	30	411 600	748 900	37,5	-	0,86	0,83	3 000	0,07
							411 600	748 900	37,5					
							494 100	997 100	43,1					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

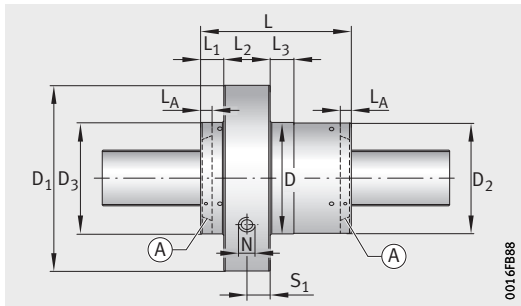
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Dimension table (continued) · Dimensions in mm

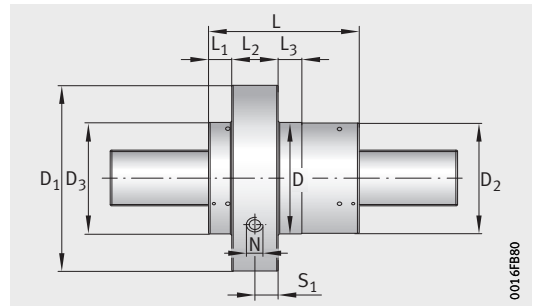
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂	L ₃
63	RGT-VTO-063.40 RGT-STO-063.40	40	5	A	–	10,7	118	180	117	118	115	–	17	45	25
				A	●	11,6	118		117	118	133	–			
		40	5	C	–	13,0	122	180	121	122	152	–	17	45	25
				C	●	13,0	122		121	122	152	–			
				D	–	13,4	122		121	122	152	–			
				D	●	13,4	122		121	122	152	–			
	RGT-VTO-063.45 RGT-STO-063.45	45	5	A	–	10,7	118	180	117	118	115	–	17	45	25
				A	●	11,6	118		117	118	133	–			
		45	5	C	–	13,0	122	180	121	122	152	–	17	45	25
				C	●	13,0	122		121	122	152	–			
				D	–	13,4	122		121	122	152	–			
				D	●	13,4	122		121	122	152	–			

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

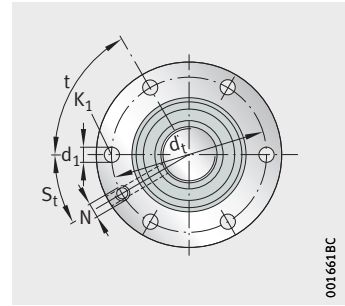


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^2/3/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
150	60	17,5	M16	M8×1	22,5	30	306 200	474 200	24,8	-	0,83	0,80	3 000	0,07
							306 200	474 200	24,8					
150	60	17,5	M16	M8×1	22,5	30	381 900	676 800	29,4	-	0,83	0,80	3 000	0,07
							381 900	676 800	29,4					
							492 000	1 004 500	35,6					
150	60	17,5	M16	M8×1	22,5	30	295 400	453 700	22,4	-	0,81	0,76	3 000	0,07
							295 400	453 700	22,4					
150	60	17,5	M16	M8×1	22,5	30	380 400	680 500	27,1	-	0,81	0,76	3 000	0,07
							380 400	680 500	27,1					
							463 000	624 100	31,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

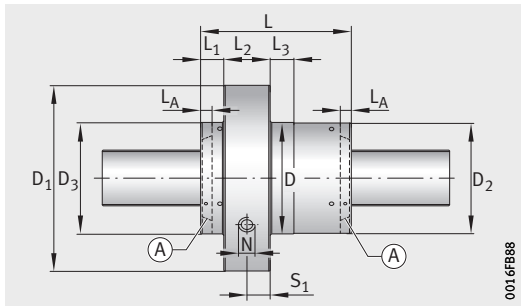
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Dimension table (continued) · Dimensions in mm

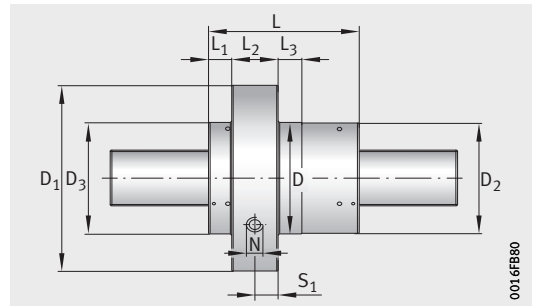
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃ _{+0,5 0}	L h12	L _A	L ₁	L ₂	L ₃
63	RGT-VTO-063.10 ³⁾ RGT-STO-063.10 ³⁾	10	6	A	–	10,2	115	180	113	115	111	–	15	40	25
				A	●	11,6	120		118	120	129	–			
				B	–	11,6	120		118	120	129	–			
	RGT-VTO-063.12 RGT-STO-063.12	12	6	A	–	10,2	115	180	113	115	111	–	15	40	25
				A	●	11,6	120		118	120	129	–			
				B	–	11,6	120		118	120	129	–			
	RGT-VTO-063.18 RGT-STO-063.18	18	6	A	–	10,2	115	180	113	115	111	–	15	40	25
				A	●	11,6	120		118	120	129	–			
				B	–	11,6	120		118	120	129	–			
	RGT-VTO-063.24 RGT-STO-063.24	24	6	A	–	10,2	115	180	113	115	111	–	15	40	25
				A	●	11,6	120		118	120	129	–			
				B	–	11,6	120		118	120	129	–			

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STO.
- 3) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 272.



With wiper

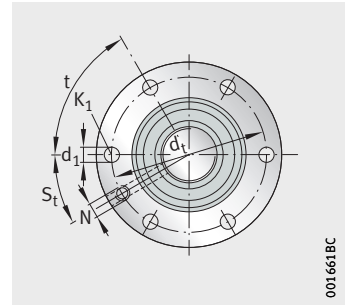


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_v Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
150	60	17,5	M16	M8×1	20	30	263 700	543 200	79,9	-	0,82	0,78	3 000	0,04
							263 700	543 200	79,9					
							319 400	735 500	92,4					
150	60	17,5	M16	M8×1	20	30	275 900	548 600	71,0	-	0,83	0,80	3 000	0,07
							275 900	548 600	71,0					
							330 000	728 000	81,3					
150	60	17,5	M16	M8×1	20	30	292 700	527 300	53,0	-	0,86	0,83	3 000	0,07
							292 700	527 300	53,0					
							356 300	718 400	61,5					
150	60	17,5	M16	M8×1	20	30	311 000	530 900	43,8	-	0,86	0,84	3 000	0,07
							311 000	530 900	43,8					
							365 100	682 900	49,4					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

001661BC

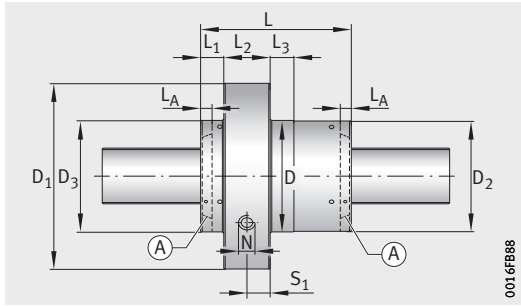
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions								
							D g6	D ₁	D ₂	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂	L ₃
78	RGT-VTO-078.05 RGT-STO-078.05	5	6	A	●	22	150	210	148	150	178	–	21	45	35
				B	●	23					191	4			
	RGT-VTO-078.10 RGT-STO-078.10	10	6	A	●	22	150	210	148	150	178	–	21	45	35
				B	●	23					191	4			
	RGT-VTO-078.15 RGT-STO-078.15	15	6	A	●	22	150	210	148	150	178	–	21	45	35
				B	●	23					191	4			
	RGT-VTO-078.20 RGT-STO-078.20	20	6	A	●	22	150	210	148	150	178	–	21	45	35
				B	●	23					191	4			
	RGT-VTO-078.30 RGT-STO-078.30	30	6	A	●	22	150	210	148	150	178	–	21	45	35
				B	●	23					191	4			
	RGT-VTO-078.36 RGT-STO-078.36	36	6	A	●	22	150	210	148	150	178	–	21	45	35
				B	●	23					191	4			
	RGT-VTO-078.42 RGT-STO-078.42	42	6	A	●	22	150	210	148	150	178	–	21	45	35
				B	●	23					191	4			
	RGT-VTO-078.42 RGT-STO-078.42	42	6	A	●	22	150	210	148	150	178	–	21	45	35
				B	●	23					191	4			
	RGT-VTO-078.42 RGT-STO-078.42	42	6	A	●	22	150	210	148	150	178	–	21	45	35
				B	●	23					191	4			

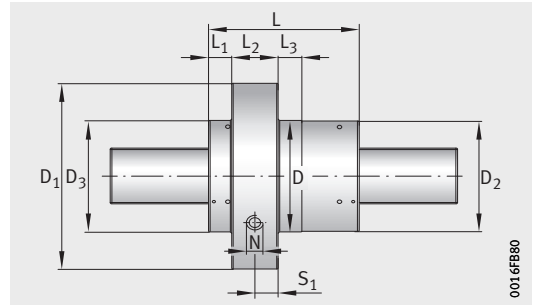
⊙ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

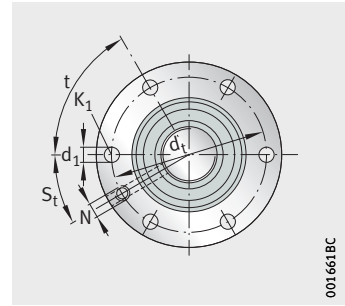


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
180	45	17,5	M16	M8×1	22,5	22,5	358 800	1 371 100	194,9	-	0,68	0,53	2 000	0,02
							417 300	1 739 400	219,8					
180	45	17,5	M16	M8×1	22,5	22,5	495 800	2 263 700	252,0	-	0,68	0,53	2 000	0,02
180	45	17,5	M16	M8×1	22,5	22,5	430 800	1 374 600	122,8	-	0,79	0,74	2 000	0,04
							501 000	1 742 700	138,4					
180	45	17,5	M16	M8×1	22,5	22,5	595 300	2 266 800	158,7	-	0,79	0,74	2 000	0,04
180	45	17,5	M16	M8×1	22,5	22,5	479 000	1 378 100	93,7	-	0,83	0,80	2 000	0,07
							551 200	1 717 400	104,8					
180	45	17,5	M16	M8×1	22,5	22,5	656 200	2 240 400	120,3	-	0,83	0,80	2 000	0,07
180	45	17,5	M16	M8×1	22,5	22,5	502 800	1 326 000	75,8	-	0,85	0,83	2 000	0,07
							593 700	1 720 700	86,5					
180	45	17,5	M16	M8×1	22,5	22,5	706 800	2 243 400	99,3	-	0,85	0,83	2 000	0,07
180	45	17,5	M16	M8×1	22,5	22,5	522 800	1 305 300	57,2	-	0,86	0,84	2 000	0,07
							625 500	1 727 200	66,0					
180	45	17,5	M16	M8×1	22,5	22,5	744 700	2 249 400	75,8	-	0,86	0,84	2 000	0,07
180	45	17,5	M16	M8×1	22,5	22,5	539 400	1 359 200	51,6	-	0,86	0,84	2 000	0,07
							613 900	1 662 600	57,2					
180	45	17,5	M16	M8×1	22,5	22,5	734 600	2 182 600	66,0	-	0,86	0,84	2 000	0,07
180	45	17,5	M16	M8×1	22,5	22,5	529 400	1 313 500	45,7	-	0,85	0,82	2 000	0,07
							617 000	1 666 400	51,6					
180	45	17,5	M16	M8×1	22,5	22,5	730 300	2 151 000	59,0	-	0,85	0,82	2 000	0,07

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

001661BC

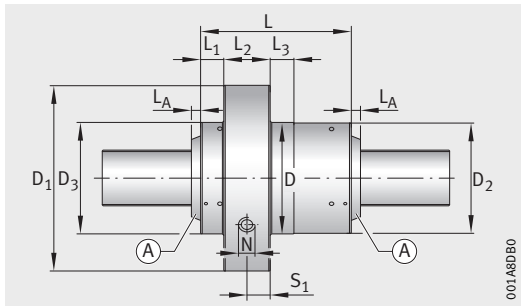
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂	L ₃
90	RGT-VTO-090.10 RGT-STO-090.10	10	6	A	●	38	175	250	173	175	245	7	30	50	60
				B	●	41					275	7			
		C	-	42	175	250	173	175	275	-	30	50	60		
	RGT-VTO-090.15 RGT-STO-090.15	15	6	A	●	38	175	250	173	175	245	7	30	50	60
				B	●	41					275	7			
		C	-	42	175	250	173	175	275	-	30	50	60		
	RGT-VTO-090.20 RGT-STO-090.20	20	6	A	●	38	175	250	173	175	245	7	30	50	60
				B	●	41					275	7			
		C	-	42	175	250	173	175	275	-	30	50	60		
	RGT-VTO-090.25 RGT-STO-090.25	25	6	A	●	38	175	250	173	175	245	7	30	50	60
				B	●	41					275	7			
		C	-	42	175	250	173	175	275	-	30	50	60		

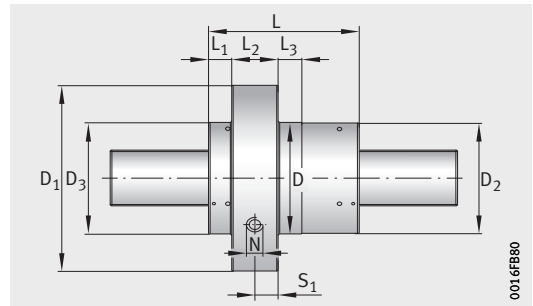
⊗ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

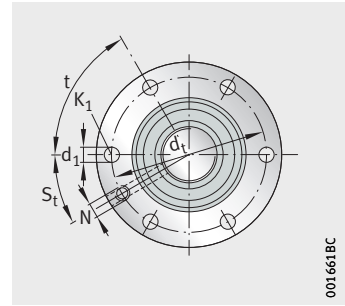


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
210	45	17,5	M16	M8×1	25	22,5	708 700	2 816 000	173,5	-	0,77	0,71	1 700	0,04
							808 400	3 429 800	192,7					
210	45	17,5	M16	M8×1	25	22,5	852 000	3 705 600	200,9	-	0,77	0,71	1 700	0,04
210	45	17,5	M16	M8×1	25	22,5	782 000	2 785 800	131,6	-	0,82	0,78	1 700	0,07
							893 100	3 398 800	146,2					
210	45	17,5	M16	M8×1	25	22,5	947 700	3 708 900	153,3	-	0,82	0,78	1 700	0,07
210	45	17,5	M16	M8×1	25	22,5	849 400	2 823 200	109,3	-	0,85	0,82	1 700	0,07
							969 000	3 436 500	121,4					
210	45	17,5	M16	M8×1	25	22,5	1 021 300	3 712 100	126,5	-	0,85	0,82	1 700	0,07
210	45	17,5	M16	M8×1	25	22,5	855 800	2 793 000	93,6	-	0,86	0,83	1 700	0,07
							974 100	3 388 300	103,8					
210	45	17,5	M16	M8×1	25	22,5	1 023 900	3 646 300	107,9	-	0,86	0,83	1 700	0,07

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

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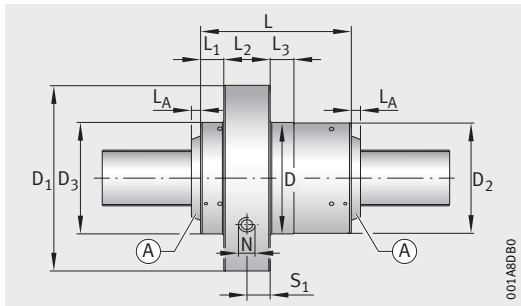
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂	L ₃
100	RGT-VTO-100.10 RGT-STO-100.10	10	5	A	●	49	200	275	198	200	260	10	26	55	40
	B			–	51	260					–				
	RGT-VTO-100.20 RGT-STO-100.20	20	5	A	●	49	200	275	198	200	260	10	26	55	40
	B			–	51	260					–				
	RGT-VTO-100.25 RGT-STO-100.25	25	5	A	●	49	200	275	198	200	260	10	26	55	40
	B			–	51	260					–				
	RGT-VTO-100.50 RGT-STO-100.50	50	5	A	●	49	200	275	198	200	260	10	26	55	40
	B			–	51	260					–				
	RGT-VTO-100.12 RGT-STO-100.12	12	6	A	●	29	180	255	178	180	195	10	25	50	50
	B			–	31	195					–				
	RGT-VTO-100.18 RGT-STO-100.18	18	6	A	●	29	180	255	178	180	195	10	25	50	50
	B			–	31	195					–				
	RGT-VTO-100.24 RGT-STO-100.24	24	6	A	●	29	180	255	178	180	195	10	25	50	50
	B			–	31	195					–				

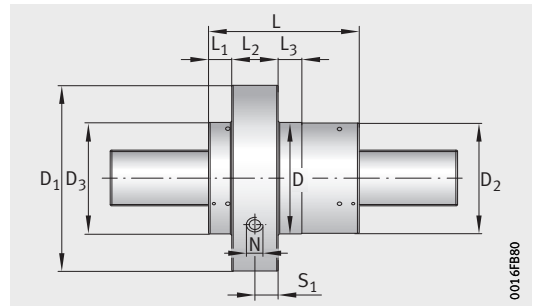
⊙ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

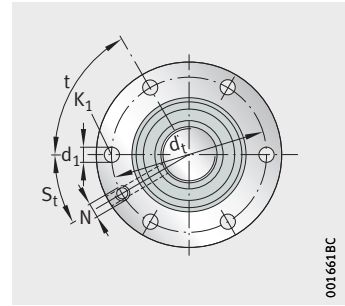


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
245	30	17,5	M16	M8×1	27,5	15	1 124 300	3 436 100	142,8	-	0,76	0,68	1 600	0,04
							1 245 600	4 042 800	154,6					
245	30	17,5	M16	M8×1	27,5	15	1 119 600	3 273 600	87,7	-	0,84	0,81	1 600	0,07
							1 245 200	3 875 300	95,2					
245	30	17,5	M16	M8×1	27,5	15	1 116 400	3 222 400	74,9	-	0,85	0,83	1 600	0,07
							1 243 200	3 822 300	81,4					
245	30	17,5	M16	M8×1	27,5	15	1 137 200	3 262 100	47,2	-	0,85	0,83	1 600	0,07
							1 266 500	3 861 100	51,3					
220	30	17,5	M16	M8×1	25,0	15	635 600	1 665 800	105,4	-	0,78	0,72	1 600	0,04
							772 200	2 308 700	123,1					
220	30	17,5	M16	M8×1	25,0	15	656 900	1 621 800	79,3	-	0,83	0,79	1 600	0,07
							818 900	2 343 800	94,5					
220	30	17,5	M16	M8×1	25,0	15	655 700	1 578 100	64,5	-	0,85	0,82	1 600	0,07
							826 900	2 323 700	77,5					

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

001661BC

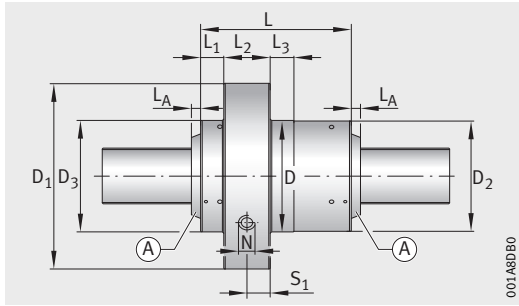
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions											
							D	D ₁	D ₂	D ₃	L	L _A	L ₁	L ₂	L ₃			
120	RGT-VTO-120.20 RGT-STO-120.20	20	5	A	●	87	260	340	258	260	280	12	27	55	60			
				B	–	90					280	–						
		C	–	102	260	340	258	260	330	–	27	55	60					
	RGT-VTO-120.25 RGT-STO-120.25	25	5	A	●	87	260	340	258	260	280	12	27	55	60			
				B	–	90					280	–						
		C	–	102	260	340	258	260	330	–	27	55	60					
135	RGT-VTO-135.15 RGT-STO-135.15	15	5	A	●	124	280	370	278	280	370	12	60	60	80			
				RGT-VTO-135.20 RGT-STO-135.20	20	5	A	●	124	280	370	278	280	370	12	60	60	80
				RGT-VTO-135.30 RGT-STO-135.30	30	5	A	●	124	280	370	278	280	370	12	60	60	80
150	RGT-VTO-150.25 RGT-STO-150.25	25	5	A	●	185	320	410	318	320	412	12	40	80	80			
				RGT-VTO-150.30 RGT-STO-150.30	30	5	A	●	185	320	410	318	320	412	12	40	80	80
				RGT-VTO-150.40 RGT-STO-150.40	40	5	A	●	185	320	410	318	320	412	12	40	80	80

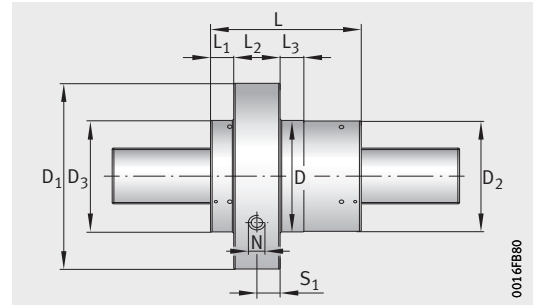
⊗ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

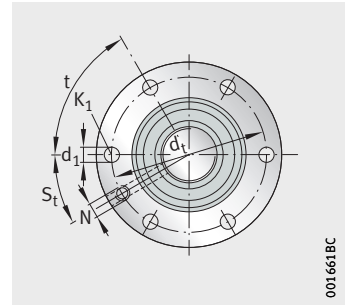


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Fric- tional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
305	30	17,5	M16	M12×1,75	27,5	15	1 196 500	3 942 600	94,4	-	0,82	0,78	1 300	0,07
							1 320 900	4 648 900	102,1					
305	30	17,5	M16	M12×1,75	27,5	15	1 515 600	5 815 500	113,9	-	0,82	0,78	1 300	0,07
305	30	17,5	M16	M12×1,75	27,5	15	1 212 700	3 952 700	81,4	-	0,84	0,81	1 300	0,07
							1 338 800	4 658 900	88,0					
305	30	17,5	M16	M12×1,75	27,5	15	1 523 900	5 751 100	97,5	-	0,84	0,81	1 300	0,07
315	30	22,0	M20	M12×1,75	30,0	15	1 843 300	8 036 300	159,5	-	0,77	0,71	1 200	0,07
315	30	22,0	M20	M12×1,75	30,0	15	1 883 100	8 089 200	132,0	-	0,81	0,76	1 200	0,07
315	30	22,0	M20	M12×1,75	30,0	15	1 904 400	7 941 800	99,7	-	0,85	0,82	1 200	0,07
365	30	26,0	M24	M12×1,75	40,0	15	2 071 300	9 086 700	118,6	-	0,82	0,78	1 000	0,07
365	30	26,0	M24	M12×1,75	40,0	15	2 087 600	9 052 400	104,8	-	0,84	0,81	1 000	0,07
365	30	26,0	M24	M12×1,75	40,0	15	2 122 600	9 076 300	86,5	-	0,86	0,83	1 000	0,07

Roller screw drives

Flanged nut, single-piece
Standard design



RGT-VTO, RGT-STO

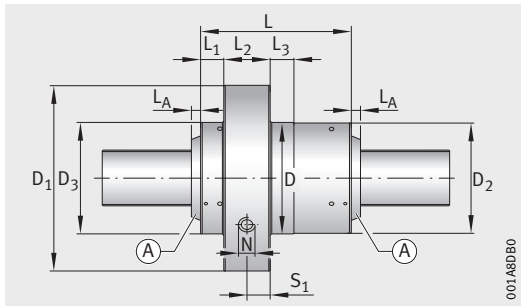
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Dimension table (continued) · Dimensions in mm

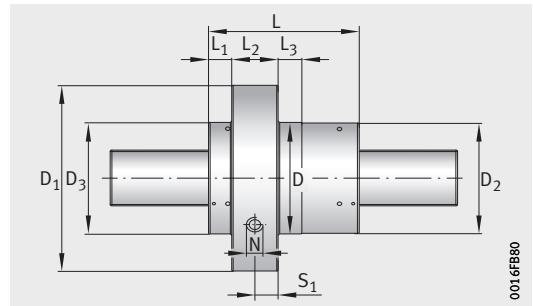
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions								
							D	D ₁	D ₂	D ₃	L	L _A	L ₁	L ₂	L ₃
180	RGT-VTO-180.20 RGT-STO-180.20	20	5	A	–	355	390	470	388	390	528	–	96	90	100
				B	●	373					558	15			
	RGT-VTO-180.24 RGT-STO-180.24	24	5	A	–	355	390	470	388	390	528	–	96	90	100
				B	●	373					558	15			
	RGT-VTO-180.25 RGT-STO-180.25	25	5	A	–	355	390	470	388	390	528	–	96	90	100
				B	●	373					558	15			
	RGT-VTO-180.30 RGT-STO-180.30	30	5	A	–	355	390	470	388	390	528	–	96	90	100
				B	●	373					558	15			
	RGT-VTO-180.40 RGT-STO-180.40	40	5	A	–	355	390	470	388	390	528	–	96	90	100
				B	●	373					558	15			
210	RGT-VTO-210.20 RGT-STO-210.20	20	5	A	●	476	440	530	438	440	570	20	100	100	100
				B	–	490					570	–			
	RGT-VTO-210.25 RGT-STO-210.25	25	5	A	●	476	440	530	438	440	570	20	100	100	100
				B	–	490					570	–			
	RGT-VTO-210.30 RGT-STO-210.30	30	5	A	●	476	440	530	438	440	570	20	100	100	100
				B	–	490					570	–			
	RGT-VTO-210.35 RGT-STO-210.35	35	5	A	●	476	440	530	438	440	570	20	100	100	100
				B	–	490					570	–			

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Maximum axial clearance for non-preloaded nuts RGT-STO.



With wiper

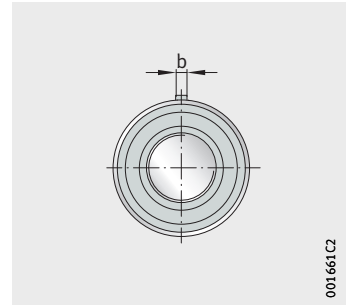


Without wiper

Mounting dimensions				Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_t	t °	d_1	K_1	N	S_1	S_t	dyn. C N	stat. C_0 N			η_1	η_2		
433	30	24	M22	M12×1,75	45	15	3 080 900	17 019 600	182,6	-	0,77	0,71	900	0,07
							3 187 300	17 942 900	187,6					
433	30	24	M22	M12×1,75	45	15	3 089 500	16 800 700	160,6	-	0,80	0,75	900	0,07
							3 218 800	17 907 400	165,9					
433	30	24	M22	M12×1,75	45	15	3 104 200	16 860 800	156,6	-	0,80	0,75	900	0,07
							3 239 100	18 014 200	161,9					
433	30	24	M22	M12×1,75	45	15	3 132 600	16 817 000	138,4	-	0,82	0,78	900	0,07
							3 255 500	17 854 100	142,7					
433	30	24	M22	M12×1,75	45	15	3 187 100	16 844 200	114,2	-	0,85	0,82	900	0,10
							3 298 200	17 765 300	117,4					
490	30	26	M24	M12×1,75	50	15	3 482 500	17 564 800	172,9	-	0,75	0,67	700	0,07
							3 741 400	19 653 900	178,9					
490	30	26	M24	M12×1,75	50	15	3 532 800	17 711 400	149,0	-	0,78	0,72	700	0,07
							3 777 800	19 670 500	154,2					
490	30	26	M24	M12×1,75	50	15	3 527 300	17 469 300	131,5	-	0,81	0,76	700	0,07
							3 774 600	19 424 300	135,6					
490	30	26	M24	M12×1,75	50	15	3 533 400	17 357 000	118,6	-	0,82	0,78	700	0,10
							3 823 700	19 637 800	123,0					

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

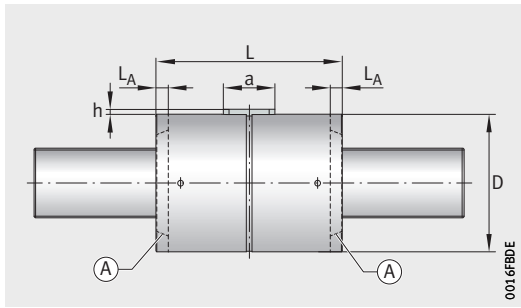
Dimension table · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓢ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
5	RGT-VTG-005.01	1	3	A	–	0,1	19	31	–	10	3	1,2
				A	●			41	–			
				B	–			41	–			
	RGT-VTG-005.02	2	3	A	–	0,1	19	31	–	10	3	1,2
				A	●			41	–			
				B	–			41	–			
	RGT-VTG-005.04	4	3	A	–	0,1	19	31	–	10	3	1,2
				A	●			41	–			
				B	–			41	–			

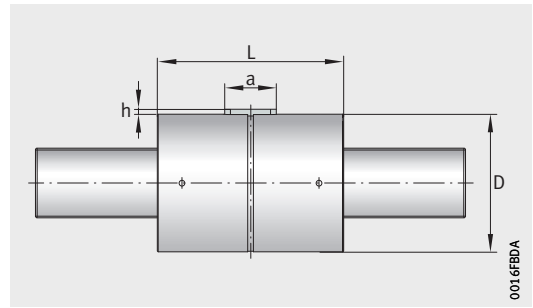
Ⓢ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

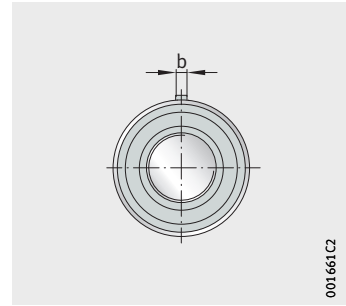


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
3×3×10	2 600	4 800	22,5	3	0,85	0,82	6 000
	2 600	4 800	22,5				
	4 100	10 300	32,3				
3×3×10	3 000	4 900	14,2	4	0,86	0,84	6 000
	3 000	4 900	14,2				
	4 800	10 400	20,3				
3×3×10	3 300	4 600	8,7	5	0,74	0,65	6 000
	3 300	4 600	8,7				
	5 500	10 500	12,8				

Roller screw drives

Cylindrical nut, two-piece
Standard design



001661C2

RGT-VTG

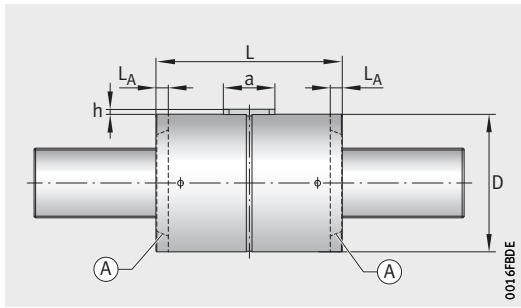
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
8	RGT-VTG-008.01	1	4	A	–	0,1	21	31	–	10	3	1,2
				A	●			41	–			
				B	–			41	–			
		1	4	C	–	0,1	25	44	–	10	3	1,2
				C	●			44	–			
				D	–			44	–			
	RGT-VTG-008.02	2	4	A	–	0,1	21	31	–	10	3	1,2
				A	●			41	–			
				B	–			41	–			
		2	4	C	–	0,1	25	44	–	10	3	1,2
				C	●			44	–			
				D	–			44	–			
RGT-VTG-008.04	4	4	A	–	0,1	21	31	–	10	3	1,2	
			A	●			41	–				
			B	–			41	–				
	4	4	C	–	0,1	25	44	–	10	3	1,2	
			C	●			44	–				
			D	–			44	–				
RGT-VTG-008.05	5	4	A	–	0,1	21	31	–	10	3	1,2	
			A	●			41	–				
			B	–			41	–				
	5	4	C	–	0,1	25	44	–	10	3	1,2	
			C	●			44	–				
			D	–			44	–				

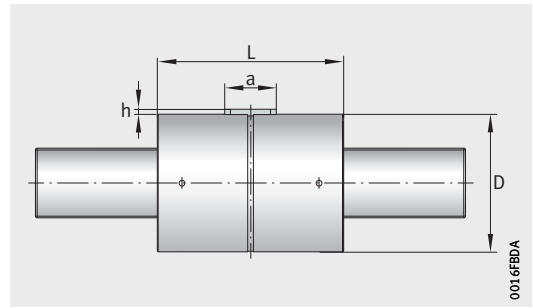
Ⓐ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

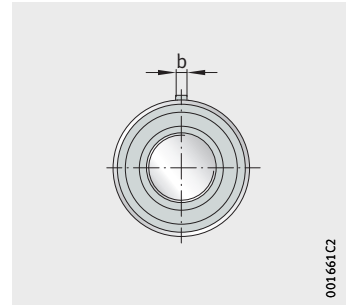


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
3×3×10	4 100	7 300	34,0	3	0,79	0,73	5 800
	4 100	7 300	34,0				
	6 600	15 400	48,7				
3×3×10	4 900	9 600	38,7	3	0,79	0,73	5 800
	4 900	9 600	38,7				
	7 300	18 000	52,7				
3×3×10	4 800	7 400	21,4	4	0,85	0,83	5 800
	4 800	7 400	21,4				
	7 700	15 500	30,7				
3×3×10	5 700	9 700	24,4	4	0,85	0,83	5 800
	5 700	9 700	24,4				
	8 500	18 000	33,2				
3×3×10	5 500	7 500	13,5	5	0,85	0,83	5 800
	5 500	7 500	13,5				
	8 900	15 600	19,3				
3×3×10	6 600	9 800	15,4	5	0,85	0,83	5 800
	6 600	9 800	15,4				
	9 800	18 100	20,9				
3×3×10	5 700	7 300	11,5	6	0,83	0,80	5 800
	5 700	7 300	11,5				
	9 200	15 400	16,5				
3×3×10	6 600	9 300	12,8	6	0,83	0,80	5 800
	6 600	9 300	12,8				
	10 000	17 500	17,7				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

001661C2

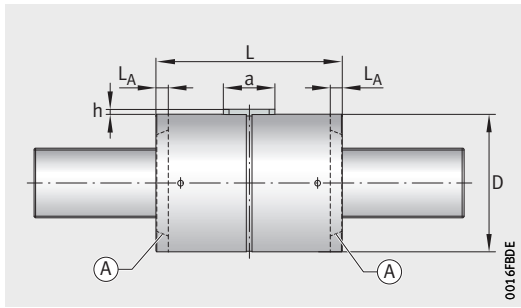
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
12	RGT-VTG-012.01	1	4	A	–	0,1	32	31	–	14	4	1,7
				A	●	0,2		41	–			
				B	–	0,2		41	–			
		1	4	C	–	0,2	32	44	–	14	4	1,5
				C	●	0,2		44	–			
				D	–	0,2		44	–			
	RGT-VTG-012.02	2	5	A	–	0,1	26	31	–	14	4	2
				A	●	0,2		41	–			
				B	–	0,2		41	–			
		2	5	C	–	0,2	30	44	–	14	4	1,5
				C	●	0,2		44	–			
RGT-VTG-012.04	4	5	A	–	0,1	26	31	–	14	4	2	
			A	●	0,2		41	–				
			B	–	0,2		41	–				
	4	5	C	–	0,2	30	44	–	14	4	1,5	
			C	●	0,2		44	–				
RGT-VTG-012.05	5	5	A	–	0,1	26	31	–	14	4	2	
			A	●	0,2		41	–				
			B	–	0,2		41	–				
	5	5	C	–	0,2	30	44	–	14	4	1,5	
			C	●	0,2		44	–				
RGT-VTG-012.10	10	5	A	–	0,1	26	31	–	14	4	2	
			A	●	0,2		41	–				
			B	–	0,2		41	–				
	10	5	C	–	0,2	30	44	–	14	4	1,5	
			C	●	0,2		44	–				

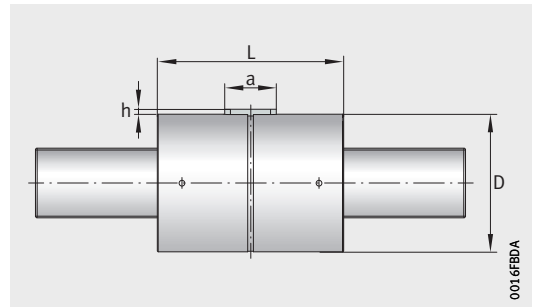
ⓐ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

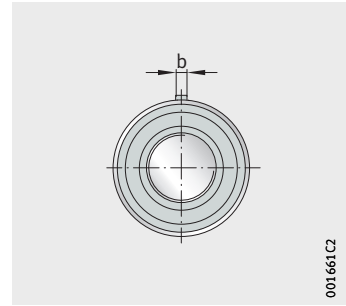


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
4×4×14	6 200	7 600	32,7	3	0,73	0,62	5 600
	6 200	7 600	32,7				
	10 400	18 000	48,2				
4×4×14	7 400	10 300	37,2	3	0,73	0,62	5 600
	7 400	10 300	37,2				
	11 200	20 100	50,7				
4×4×14	7 400	10 000	29,5	4	0,82	0,78	5 600
	7 400	10 000	29,5				
	13 200	24 300	45,5				
4×4×14	8 700	13 000	33,3	4	0,82	0,78	5 600
	8 700	13 000	33,3				
4×4×14	8 300	9 700	18,2	5	0,86	0,84	5 600
	8 300	9 700	18,2				
	15 100	24 000	28,4				
4×4×14	10 100	13 100	21,0	5	0,86	0,84	5 600
	10 100	13 100	21,0				
4×4×14	8 900	10 200	16,0	6	0,86	0,84	5 600
	8 900	10 200	16,0				
	16 100	24 700	24,8				
4×4×14	10 600	13 400	18,2	6	0,86	0,84	5 600
	10 600	13 400	18,2				
4×4×14	10 000	10 500	10,1	8	0,77	0,69	5 600
	10 000	10 500	10,1				
	17 400	23 800	15,2				
4×4×14	11 300	12 600	11,0	8	0,77	0,69	5 600
	11 300	12 600	11,0				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

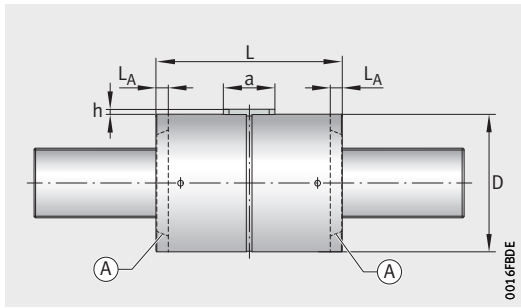
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
15	RGT-VTG-015.02	2	5	A	–	0,2	34	35	–	14	4	1,5
				A	●	0,2		45	–			
				B	–	0,2		45	–			
		2	5	C	–	0,3	35	50	–	14	4	1,5
				C	●	0,3		50	–			
				D	–	0,3		50	–			
	RGT-VTG-015.04	4	5	A	–	0,2	34	35	–	14	4	1,5
				A	●	0,2		45	–			
				B	–	0,2		45	–			
		4	5	C	–	0,3	35	50	–	14	4	1,5
				C	●	0,3		50	–			
				D	–	0,3		50	–			
	RGT-VTG-015.05	5	5	A	–	0,2	34	35	–	14	4	1,5
				A	●	0,2		45	–			
				B	–	0,2		45	–			
		5	5	C	–	0,3	35	50	–	14	4	1,5
				C	●	0,3		50	–			
				D	–	0,3		50	–			
RGT-VTG-015.06	6	5	A	–	0,2	34	35	–	14	4	1,5	
			A	●	0,2		45	–				
			B	–	0,2		45	–				
	6	5	C	–	0,3	35	50	–	14	4	1,5	
			C	●	0,3		50	–				
			D	–	0,3		50	–				

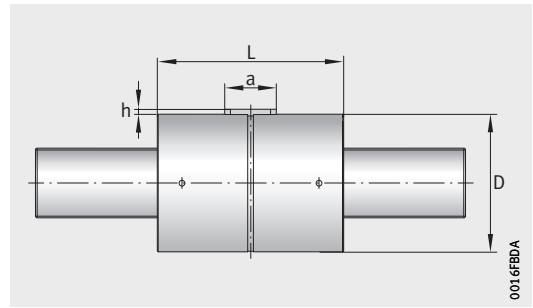
ⓐ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

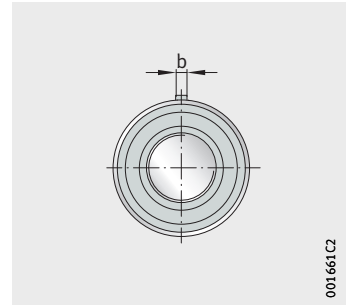


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
4×4×14	8 700	11 200	30,6	6	0,80	0,75	5 500
	8 700	11 200	30,6				
	14 000	24 300	43,8				
4×4×14	11 300	17 300	37,2	6	0,80	0,75	5 500
	11 300	17 300	37,2				
	16 500	31 100	49,5				
4×4×14	9 800	10 900	18,9	7	0,86	0,83	5 500
	9 800	10 900	18,9				
	16 200	24 500	27,6				
4×4×14	12 800	16 900	23,1	7	0,86	0,83	5 500
	12 800	16 900	23,1				
	19 100	31 300	31,2				
4×4×14	10 500	11 500	16,6	9	0,86	0,84	5 500
	10 500	11 500	16,6				
	17 000	24 500	23,8				
4×4×14	13 800	17 800	20,4	9	0,86	0,84	5 500
	13 800	17 800	20,4				
	20 100	31 600	27,0				
4×4×14	10 300	10 600	14,1	10	0,86	0,84	5 500
	10 300	10 600	14,1				
	17 600	24 600	21,1				
4×4×14	13 600	16 500	17,4	10	0,86	0,84	5 500
	13 600	16 500	17,4				
	20 700	31 400	23,8				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

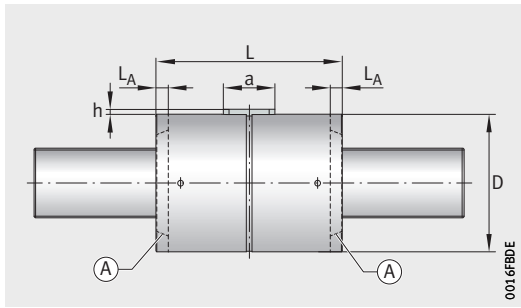
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Dimension table (continued) · Dimensions in mm

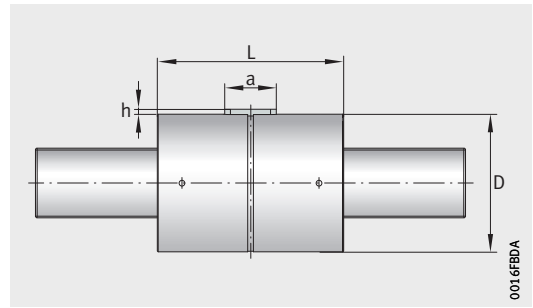
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
15	RGT-VTG-015.08	8	5	A	–	0,2	34	35	–	14	4	1,5
				A	●	0,2		45	–			
				B	–	0,2		45	–			
		8	5	C	–	0,3	35	50	–	14	4	1,5
				C	●	0,3		50	–			
				D	–	0,3		50	–			
	RGT-VTG-015.10	10	5	A	–	0,2	34	35	–	14	4	1,5
				A	●	0,2		45	–			
				B	–	0,2		45	–			
		10	5	C	–	0,3	35	50	–	14	4	1,5
				C	●	0,3		50	–			
				D	–	0,3		50	–			

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

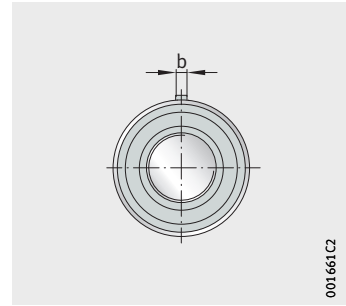


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
4×4×14	10 600	10 300	11,4	12	0,85	0,82	5 500
	10 600	10 300	11,4				
	17 400	22 600	16,6				
4×4×14	14 100	16 200	14,1	12	0,85	0,82	5 500
	14 100	16 200	14,1				
	20 700	29 300	18,9				
4×4×14	10 400	9 500	9,4	14	0,82	0,78	5 500
	10 400	9 500	9,4				
	17 800	22 200	14,1				
4×4×14	14 900	16 800	12,4	14	0,82	0,78	5 500
	14 900	16 800	12,4				
	22 100	30 500	16,6				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

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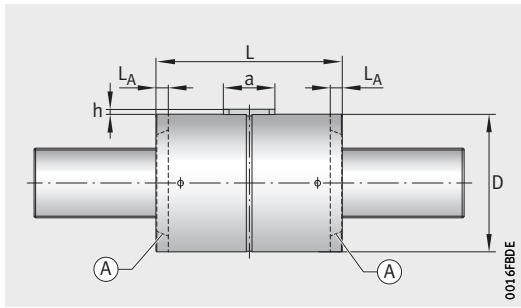
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
20	RGT-VTG-020.02	2	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			
	RGT-VTG-020.04	4	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			
	RGT-VTG-020.05	5	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			
	RGT-VTG-020.06	6	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			
	RGT-VTG-020.10	10	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			
	RGT-VTG-020.12	12	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			
	RGT-VTG-020.20	20	5	A	–	0,4	42	55	–	18	4	1,5
				A	●	0,5		65	–			
				B	–	0,5		65	–			

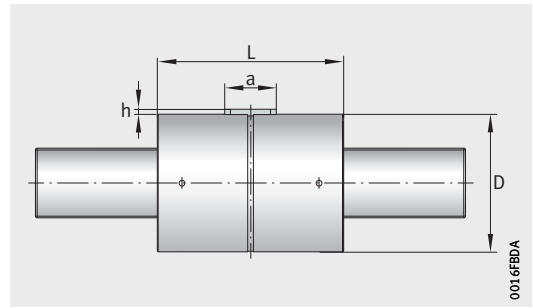
ⓐ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

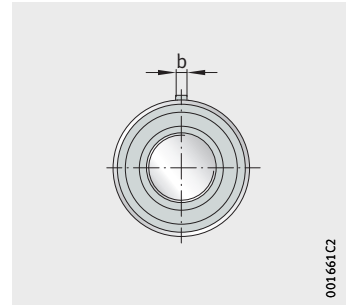


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
4×4×18	17 800	33 200	49,3	18	0,76	0,69	5 200
	17 800	33 200	49,3				
	23 500	51 400	60,9				
4×4×18	20 500	32 700	30,8	20	0,84	0,81	5 200
	20 500	32 700	30,8				
	27 400	51 600	38,4				
4×4×18	21 900	33 900	26,9	24	0,85	0,83	5 200
	21 900	33 900	26,9				
	28 900	52 000	33,2				
4×4×18	22 400	32 900	23,5	26	0,86	0,84	5 200
	22 400	32 900	23,5				
	29 400	50 200	28,9				
4×4×18	24 500	32 600	16,5	35	0,85	0,83	5 200
	24 500	32 600	16,5				
	32 600	50 600	20,5				
4×4×18	25 600	33 500	14,8	40	0,83	0,80	5 200
	25 600	33 500	14,8				
	33 700	50 800	18,2				
4×4×18	25 400	30 100	9,9	50	0,67	0,50	5 200
	25 400	30 100	9,9				
	36 200	51 500	12,9				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

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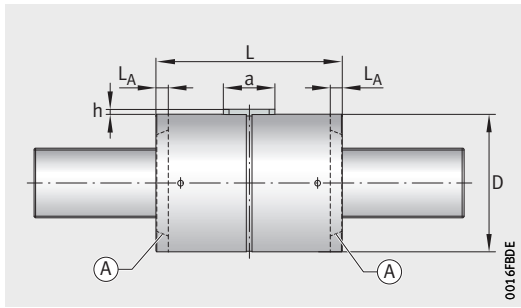
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
21	RGT-VTG-021.02	2	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			
	RGT-VTG-021.04	4	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			
	RGT-VTG-021.05	5	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			
	RGT-VTG-021.06	6	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			
	RGT-VTG-021.10	10	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			
	RGT-VTG-021.12	12	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			
	RGT-VTG-021.20	20	5	A	●	0,5	45	64	–	20	5	2
				B	–	0,5		64	–			

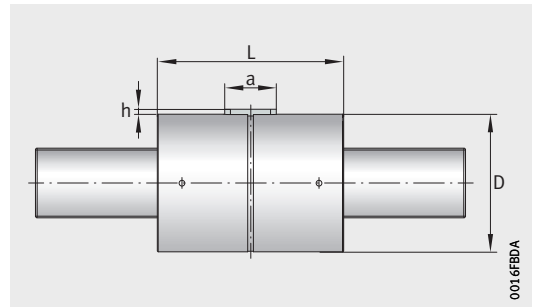
ⓐ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

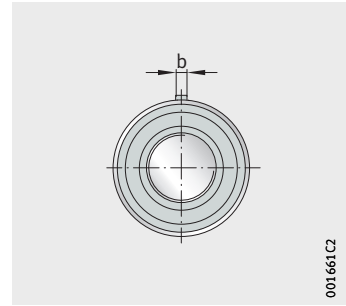


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
5×5×20	24 000	45 100	58,8	20	0,75	0,67	5 200
	31 300	68 800	72,1				
5×5×20	28 400	45 300	37,0	22	0,83	0,80	5 200
	36 700	68 100	45,1				
5×5×20	30 000	45 500	31,9	25	0,85	0,82	5 200
	39 000	69 200	39,1				
5×5×20	30 900	44 700	28,0	30	0,86	0,83	5 200
	40 000	67 300	34,2				
5×5×20	33 000	41 600	19,1	38	0,86	0,83	5 200
	43 600	64 900	23,8				
5×5×20	34 700	42 800	17,1	45	0,84	0,81	5 200
	45 300	65 200	21,1				
5×5×20	30 600	31 400	10,0	60	0,71	0,59	5 200
	39 200	46 300	12,1				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

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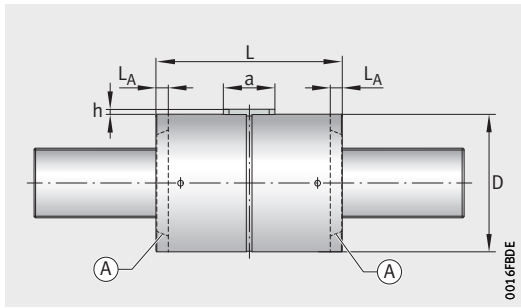
Dimension table (continued) - Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	④	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
24	RGT-VTG-024.02	2	5	A	—	0,4	48	55	—	18	4	1,5
				A	●	0,6		65	—			
				B	—	0,6		65	—			
	RGT-VTG-024.04	4	5	A	—	0,4	48	55	—	18	4	1,5
				A	●	0,6		65	—			
				B	—	0,6		65	—			
	RGT-VTG-024.05	5	5	A	—	0,4	48	55	—	18	4	1,5
				A	●	0,6		65	—			
				B	—	0,6		65	—			
	RGT-VTG-024.06	6	5	A	—	0,4	48	55	—	18	4	1,5
				A	●	0,6		65	—			
				B	—	0,6		65	—			
	RGT-VTG-024.12	12	5	A	—	0,4	48	55	—	18	4	1,5
				A	●	0,6		65	—			
				B	—	0,6		65	—			
	RGT-VTG-024.20	20	5	A	—	0,4	48	55	—	18	4	1,5
				A	●	0,6		65	—			
				B	—	0,6		65	—			

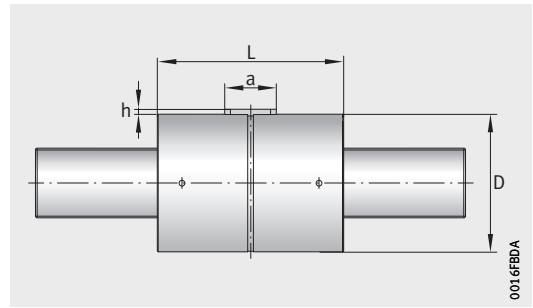
④ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

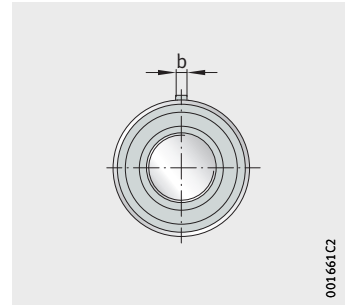


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
4×4×18	23 100	38 700	54,5	24	0,73	0,62	5 000
	23 100	38 700	54,5				
	33 400	71 600	72,4				
4×4×18	27 400	39 000	34,3	28	0,82	0,78	5 000
	27 400	39 000	34,3				
	39 500	71 900	45,6				
4×4×18	28 900	39 200	29,6	32	0,84	0,81	5 000
	28 900	39 200	29,6				
	41 900	72 600	39,5				
4×4×18	30 100	39 300	26,2	50	0,85	0,83	5 000
	30 100	39 300	26,2				
	42 700	70 000	34,3				
4×4×18	32 200	34 600	15,4	70	0,85	0,83	5 000
	32 200	34 600	15,4				
	70 900	50 000	21,6				
4×4×18	33 200	32 000	10,4	85	0,77	0,69	5 000
	33 200	32 000	10,4				
	49 800	61 400	14,2				

Roller screw drives

Cylindrical nut, two-piece
Standard design



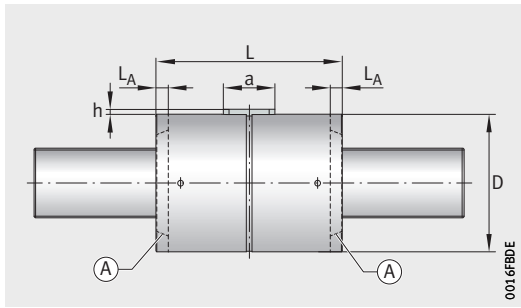
RGT-VTG

Dimension table (continued) · Dimensions in mm

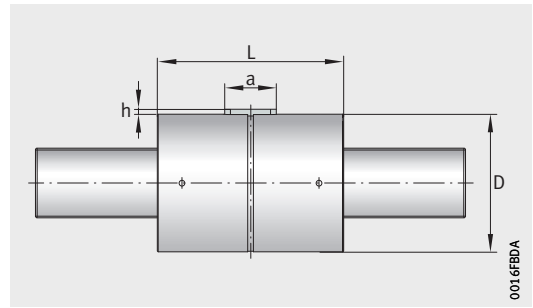
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
25	RGT-VTG-025.02	2	5	A	●	0,7	53	78	–	25	6	2,5
				B	–	0,8		78	–			
	RGT-VTG-025.04	4	5	A	●	0,7	53	78	–	25	6	2,5
				B	–	0,8		78	–			
	RGT-VTG-025.05	5	5	A	●	0,7	53	78	–	25	6	2,5
				B	–	0,8		78	–			
	RGT-VTG-025.06	6	5	A	●	0,7	53	78	–	25	6	2,5
				B	–	0,8		78	–			
	RGT-VTG-025.12	12	5	A	●	0,7	53	78	–	25	6	2,5
				B	–	0,8		78	–			
	RGT-VTG-025.20	20	5	A	●	0,7	53	78	–	25	6	2,5
				B	–	0,8		78	–			

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

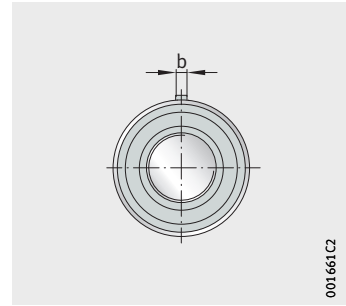


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
6×6×25	33 400	71 600	72,4	26	0,73	0,62	5 000
	41 000	99 300	85,0				
6×6×25	39 500	71 900	45,6	38	0,82	0,78	5 000
	48 200	98 400	53,2				
6×6×25	41 900	72 600	39,5	43	0,84	0,83	5 000
	51 400	100 300	46,3				
6×6×25	42 700	70 000	34,3	58	0,85	0,82	5 000
	53 500	99 900	40,9				
6×6×25	50 000	70 900	21,6	75	0,85	0,83	5 000
	61 300	97 300	25,3				
6×6×25	43 500	50 300	12,4	90	0,77	0,69	5 000
	57 200	76 800	15,4				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

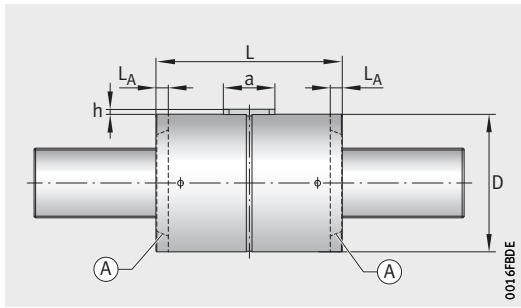
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
27	RGT-VTG-027.02	2	5	A	–	0,6	55	55	–	18	4	1,5
				A	●	0,6		69	–			
				B	–	0,8		69	–			
		2	5	C	–	0,8	55	79	–	18	4	1,5
				C	●	0,8		79	–			
				D	–	0,8		79	–			
	RGT-VTG-027.04	4	5	A	–	0,6	55	55	–	18	4	1,5
				A	●	0,6		69	–			
				B	–	0,8		69	–			
		4	5	C	–	0,8	55	79	–	18	4	1,5
				C	●	0,8		79	–			
				D	–	0,8		79	–			
RGT-VTG-027.05	5	5	A	–	0,6	55	55	–	18	4	1,5	
			A	●	0,6		69	–				
			B	–	0,8		69	–				
	5	5	C	–	0,8	55	79	–	18	4	1,5	
			C	●	0,8		79	–				
			D	–	0,8		79	–				
RGT-VTG-027.06	6	5	A	–	0,6	55	55	–	18	4	1,5	
			A	●	0,6		69	–				
			B	–	0,8		69	–				
	6	5	C	–	0,8	55	79	–	18	4	1,5	
			C	●	0,8		79	–				
			D	–	0,8		79	–				

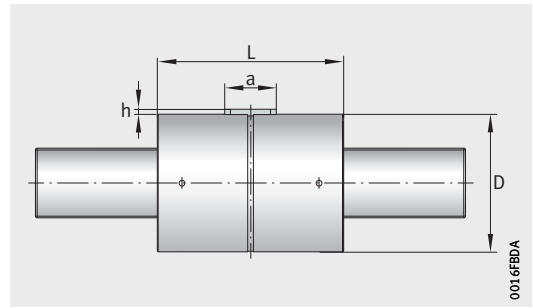
ⓐ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

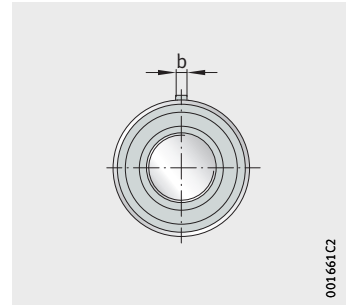


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
4×4×18	25 000	37 900	53,8	28	0,71	0,58	4 900
	25 000	37 900	53,8				
	37 900	76 800	74,1				
4×4×18	34 300	65 100	68,6	28	0,71	0,58	4 900
	34 300	65 100	68,6				
	46 700	107 200	86,9				
4×4×18	28 900	37 300	33,5	40	0,81	0,76	4 900
	28 900	37 300	33,5				
	44 600	77 100	46,7				
4×4×18	40 300	65 500	43,2	40	0,81	0,76	4 900
	40 300	65 500	43,2				
	54 500	106 300	54,5				
4×4×18	30 000	36 400	28,5	45	0,83	0,80	4 900
	30 000	36 400	28,5				
	46 000	74 900	39,6				
4×4×18	41 600	63 400	36,6	45	0,83	0,80	4 900
	41 600	63 400	36,6				
	57 000	105 200	46,7				
4×4×18	32 300	38 600	25,9	60	0,85	0,82	4 900
	32 300	38 600	25,9				
	48 000	75 100	35,1				
4×4×18	42 400	61 300	31,9	60	0,85	0,82	4 900
	42 400	61 300	31,9				
	59 000	104 100	41,1				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

001661C2

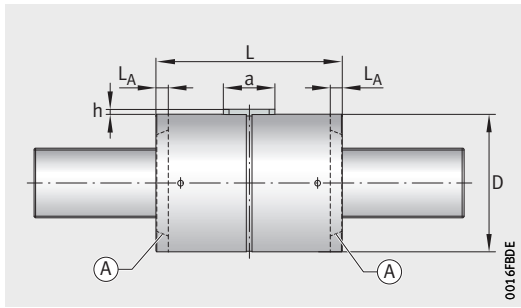
Dimension table (continued) - Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
27	RGT-VTG-027.08	8	5	A	–	0,6	55	55	–	18	4	1,5
				A	●	0,6		69	–			
				B	–	0,8		69	–			
		8	5	C	–	0,8	55	79	–	18	4	1,5
				C	●	0,8		79	–			
				D	–	0,8		79	–			
	RGT-VTG-027.15	15	5	A	–	0,6	55	55	–	18	4	1,5
				A	●	0,6		69	–			
				B	–	0,8		69	–			
		15	5	C	–	0,8	55	79	–	18	4	1,5
				C	●	0,8		79	–			
				D	–	0,8		79	–			
RGT-VTG-027.25	25	5	B	–	0,8	55	69	–	18	4	1,5	
			C	–	0,8		79	–				
	25	5	C	●	0,8	55	79	–	18	4	1,5	
			D	–	0,8		79	–				

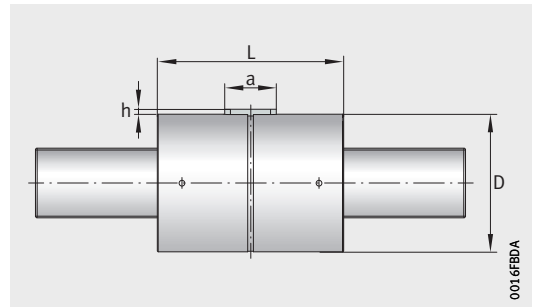
Ⓐ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

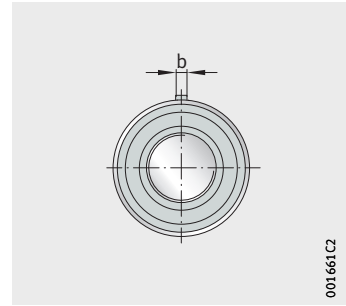


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
4×4×18	33 900	38 000	21,1	75	0,86	0,84	4 900
	33 900	38 000	21,1				
	50 200	73 100	28,5				
4×4×18	52 200	77 800	29,4	75	0,86	0,84	4 900
	52 200	77 800	29,4				
	63 900	106 900	34,3				
4×4×18	36 600	35 600	13,3	90	0,85	0,82	4 900
	36 600	35 600	13,3				
	58 500	76 600	19,1				
4×4×18	49 900	59 400	16,9	90	0,85	0,82	4 900
	49 900	59 400	16,9				
	71 100	103 700	22,1				
4×4×18	47 600	49 900	10,5	100	0,72	0,62	4 900
	47 600	49 900	10,5				
	47 600	49 900	10,5				
4×4×18	61 100	73 600	12,7	100	0,72	0,62	4 900

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

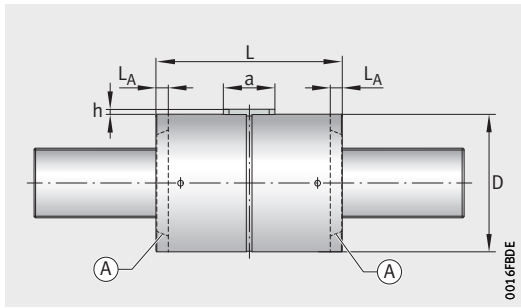
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
30	RGT-VTG-030.02	2	5	A	–	0,8	62	55	–	22	5	2
				A	●	0,9		69	–			
				B	–	1,1		69	–			
		2	5	C	–	1,3	64	85	–	32	6	2,5
				C	●	1,3		85	–			
				D	–	1,3		85	–			
	RGT-VTG-030.04	4	5	A	–	0,8	62	55	–	22	5	2
				A	●	0,9		69	–			
				B	–	1,1		69	–			
		4	5	C	–	1,3	64	85	–	32	6	2,5
				C	●	1,3		85	–			
				D	–	1,3		85	–			
RGT-VTG-030.05	5	5	A	–	0,8	62	55	–	22	5	2	
			A	●	0,9		69	–				
			B	–	1,1		69	–				
	5	5	C	–	1,3	64	85	–	32	6	2,5	
			C	●	1,3		85	–				
			D	–	1,3		85	–				
RGT-VTG-030.06	6	5	A	–	0,8	62	55	–	22	5	2	
			A	●	0,9		69	–				
			B	–	1,1		69	–				
	6	5	C	–	1,3	64	85	–	32	6	2,5	
			C	●	1,3		85	–				
			D	–	1,3		85	–				

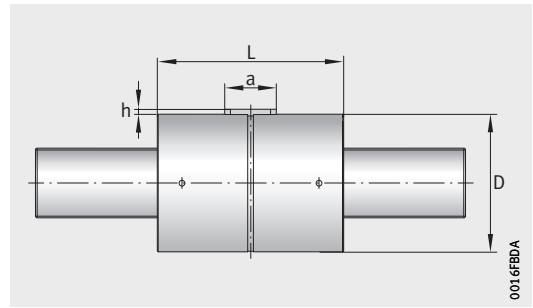
Ⓐ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

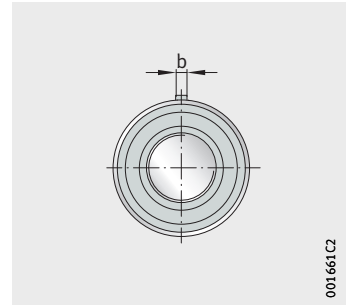


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
5×5×22	27 100	37 600	53,6	30	0,69	0,54	4 700
	27 100	37 600	53,6				
	41 900	78 900	74,4				
6×6×32	43 900	85 300	77,1	30	0,69	0,54	4 700
	43 900	85 300	77,1				
	56 700	128 100	93,6				
5×5×22	31 200	36 900	33,3	45	0,8	0,75	4 700
	31 200	36 900	33,3				
	48 900	79 300	46,9				
6×6×32	50 800	84 400	48,3	45	0,8	0,75	4 700
	50 800	84 400	48,3				
	65 700	127 100	58,7				
5×5×22	33 300	38 200	29,1	55	0,82	0,78	4 700
	33 300	38 200	29,1				
	51 400	79 500	40,4				
6×6×32	53 900	85 900	41,9	55	0,82	0,78	4 700
	53 900	85 900	41,9				
	69 800	129 400	51,0				
5×5×22	34 100	37 300	25,4	70	0,84	0,81	4 700
	34 100	37 300	25,4				
	53 500	79 700	35,8				
6×6×32	55 000	83 500	36,6	70	0,84	0,81	4 700
	55 000	83 500	36,6				
	71 900	127 500	44,8				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

001661C2

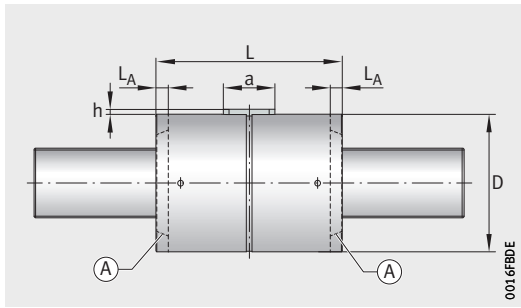
Dimension table (continued) - Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	④	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
30	RGT-VTG-030.08	8	5	A	–	0,8	62	55	–	22	5	2
				A	●	0,9		69	–			
				B	–	1,1		69	–			
		8	5	C	–	1,3	64	85	–	32	6	2,5
				C	●	1,3		85	–			
				D	–	1,3		85	–			
	RGT-VTG-030.10	10	5	A	–	0,8	62	55	–	22	5	2
				A	●	0,9		69	–			
				B	–	1,1		69	–			
		10	5	C	–	1,3	64	85	–	32	6	2,5
				C	●	1,3		85	–			
				D	–	1,3		85	–			
RGT-VTG-030.20	20	5	A	–	0,8	62	55	–	22	5	2	
			A	●	0,9		69	–				
			B	–	1,1		69	–				
	20	5	C	–	1,3	64	85	–	32	6	2,5	
			C	●	1,3		85	–				
			D	–	1,3		85	–				

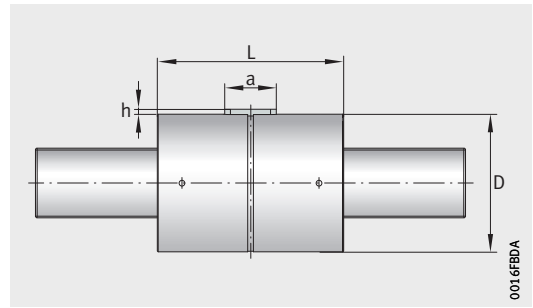
④ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

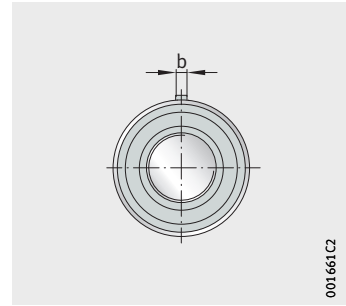


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
5×5×22	35 100	35 600	20,5	80	0,86	0,83	4 700
	35 100	35 600	20,5				
	55 800	77 600	29,1				
6×6×32	58 000	82 600	30,0	80	0,86	0,83	4 700
	58 000	82 600	30,0				
	75 500	125 100	36,6				
5×5×22	35 600	33 800	17,2	100	0,86	0,84	4 700
	35 600	33 800	17,2				
	56 800	74 200	24,5				
6×6×32	62 600	86 900	26,4	100	0,86	0,84	4 700
	62 600	86 900	26,4				
	79 700	126 800	31,7				
5×5×22	40 700	35 600	10,8	140	0,82	0,78	4 700
	40 700	35 600	10,8				
	68 300	82 300	16,0				
6×6×32	68 300	82 300	16,0	140	0,82	0,78	4 700
	68 300	82 300	16,0				
	87 900	121 800	19,4				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

001661C2

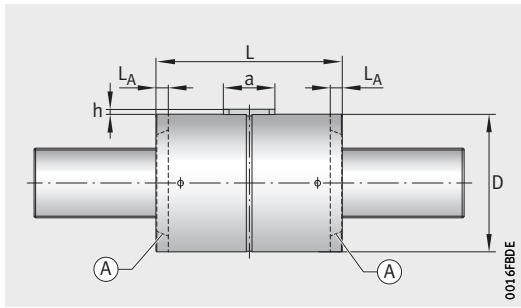
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
33	RGT-VTG-033.05	5	5	A	–	1,5	68	80	–	32	5	2
				A	●	1,6		94	–			
36	RGT-VTG-036.02	2	5	A	–	1,3	75	68	–	22	5	2
				A	●	1,3		82	–			
				B	–	1,6		82	–			
	RGT-VTG-036.04	4	5	A	–	1,3	75	68	–	22	5	2
				A	●	1,3		82	–			
				B	–	1,6		82	–			
	RGT-VTG-036.05	5	5	A	–	1,3	75	68	–	22	5	2
				A	●	1,3		82	–			
				B	–	1,6		82	–			
	RGT-VTG-036.06	6	5	A	–	1,3	75	68	–	22	5	2
				A	●	1,3		82	–			
				B	–	1,6		82	–			
RGT-VTG-036.08	8	5	A	–	1,3	75	68	–	22	5	2	
			A	●	1,3		82	–				
			B	–	1,6		82	–				
RGT-VTG-036.10	10	5	A	–	1,3	75	68	–	22	5	2	
			A	●	1,3		82	–				
			B	–	1,6		82	–				
RGT-VTG-036.20	20	5	A	–	1,3	75	68	–	22	5	2	
			A	●	1,3		82	–				
			B	–	1,6		82	–				
RGT-VTG-036.25	25	5	A	–	1,3	75	68	–	22	5	2	
			A	●	1,3		82	–				
			B	–	1,6		82	–				
RGT-VTG-036.30	30	5	A	–	1,3	75	68	–	22	5	2	
			A	●	1,3		82	–				
			B	–	1,6		82	–				

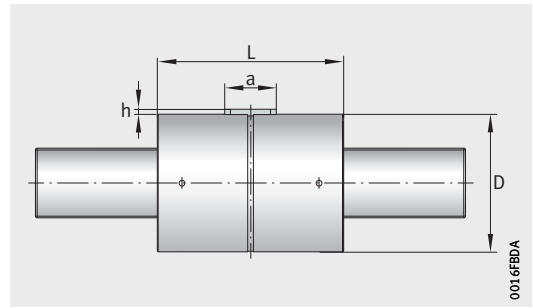
⊗ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

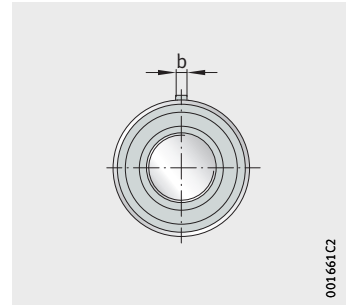


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
5×5×22	71 300	144 800	53,0	60	0,81	0,77	4 500
	71 300	144 800	53,0				
5×5×22	38 800	65 900	67,9	45	0,65	0,46	4 400
	38 800	65 900	67,9				
	54 100	116 660	87,7				
5×5×22	45 100	65 100	42,4	60	0,77	0,71	4 400
	45 100	65 100	42,4				
	63 600	117 100	55,3				
5×5×22	48 000	66 600	36,9	70	0,8	0,75	4 400
	48 000	66 600	36,9				
	67 000	117 300	47,6				
5×5×22	50 100	66 900	32,7	80	0,82	0,78	4 400
	50 100	66 900	32,7				
	68 800	114 500	41,7				
5×5×22	51 700	63 300	26,2	100	0,85	0,82	4 400
	51 700	63 300	26,2				
	73 500	115 000	34,4				
5×5×22	53 000	61 100	22,2	120	0,86	0,83	4 400
	53 000	61 100	22,2				
	75 500	110 900	29,1				
5×5×22	61 500	63 300	14,0	160	0,85	0,82	4 400
	61 500	63 300	14,0				
	83 800	105 600	17,7				
5×5×22	58 000	54 600	11,2	180	0,81	0,77	4 400
	58 000	54 600	11,2				
	87 300	106 700	15,3				
5×5×22	70 000	72 000	11,2	200	0,77	0,69	4 400
	70 000	72 000	11,2				
	82 100	93 100	12,6				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

001661C2

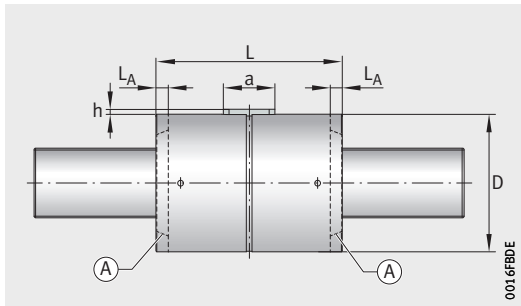
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
39	RGT-VTG-039.02	2	5	A	–	1,6	80	72	–	25	5	2
				A	●	1,7		90	–			
				B	–	1,8		90	–			
		2	5	C	–	1,9	80	100	–	40	8	3
				C	●	2,0		100	–			
				D	–	2,2		100	–			
	RGT-VTG-039.04	4	5	A	–	1,6	80	72	–	25	5	2
				A	●	1,7		90	–			
				B	–	1,8		90	–			
		4	5	C	–	1,9	80	100	–	40	8	3
				C	●	2,0		100	–			
				D	–	2,2		100	–			
	RGT-VTG-039.05	5	5	A	–	1,6	80	72	–	25	5	2
				A	●	1,7		90	–			
				B	–	1,8		90	–			
		5	5	C	–	1,9	80	100	–	40	8	3
				C	●	2,0		100	–			
				D	–	2,2		100	–			
RGT-VTG-039.10	10	5	A	–	1,6	80	72	–	25	5	2	
			A	●	1,7		90	–				
			B	–	1,8		90	–				
	10	5	C	–	1,9	80	100	–	40	8	3	
			C	●	2,0		100	–				
			D	–	2,2		100	–				

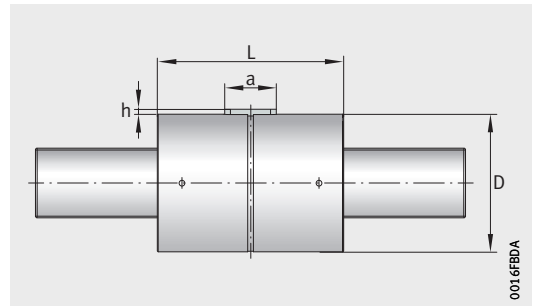
⊙ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

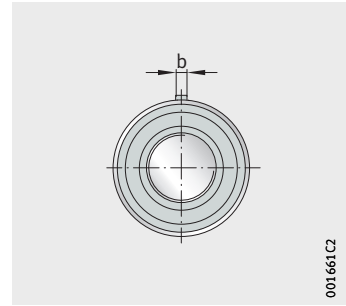


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
5×5×25	46 300	78 400	73,1	80	0,63	0,42	4 200
	46 300	78 400	73,1				
	68 000	150 000	97,9				
8×7×40	63 300	133 300	92,6	80	0,63	0,42	4 200
	63 300	133 300	92,6				
	79 700	193 100	110,3				
5×5×25	54 100	78 900	46,1	95	0,76	0,69	4 200
	54 100	78 900	46,1				
	78 900	148 800	61,3				
8×7×40	73 400	132 100	58,0	95	0,76	0,69	4 200
	73 400	132 100	58,0				
	93 100	193 600	69,5				
5×5×25	55 600	76 300	39,0	110	0,79	0,74	4 200
	55 600	76 300	39,0				
	82 400	147 300	52,6				
8×7×40	76 500	130 700	49,7	110	0,79	0,74	4 200
	76 500	130 700	49,7				
	96 700	190 300	59,4				
5×5×25	64 800	77 500	24,6	170	0,85	0,83	4 200
	64 800	77 500	24,6				
	96 000	148 600	33,1				
8×7×40	89 200	132 000	31,3	170	0,85	0,83	4 200
	89 200	132 000	31,3				
	112 600	191 500	37,4				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

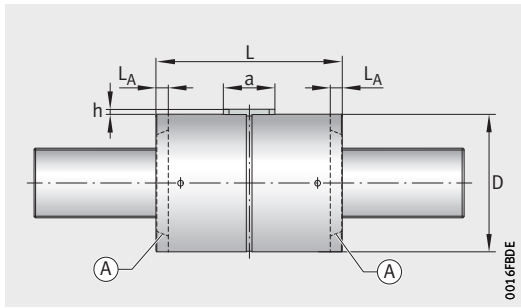
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Dimension table (continued) · Dimensions in mm

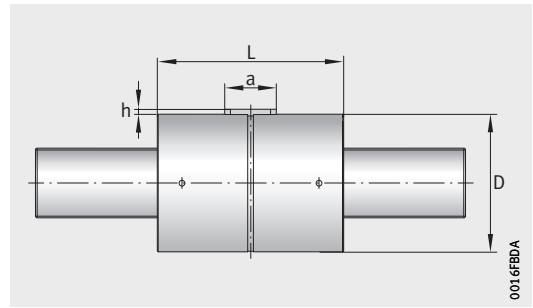
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
39	RGT-VTG-039.20	20	5	A	–	1,6	80	72	–	25	5	2
				A	●	1,7		90	–			
				B	–	1,8		90	–			
		20	5	C	–	1,9	80	100	–	40	8	3
				C	●	2,0		100	–			
				D	–	2,2		100	–			
	RGT-VTG-039.30	30	5	A	–	1,6	80	72	–	25	5	2
				A	●	1,7		90	–			
				B	–	1,8		90	–			
		30	5	C	–	1,9	80	100	–	40	8	3
				C	●	2,0		100	–			
				D	–	2,2		100	–			

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

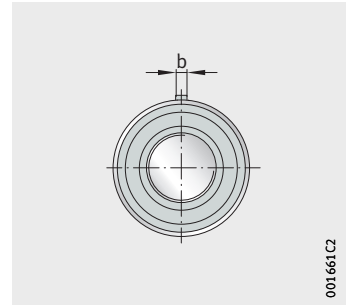


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
5×5×25	74 700	79 900	15,5	240	0,85	0,83	4 200
	74 700	79 900	15,5				
	106 800	142 600	20,3				
8×7×40	98 900	126 200	19,2	240	0,85	0,83	4 200
	98 900	126 200	19,2				
	130 000	193 900	23,6				
5×5×25	75 300	74 900	11,3	300	0,79	0,74	4 200
	75 300	74 900	11,3				
	113 900	144 900	15,5				
8×7×40	101 300	120 500	14,2	300	0,79	0,74	4 200
	101 300	120 500	14,2				
	126 400	170 200	16,8				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

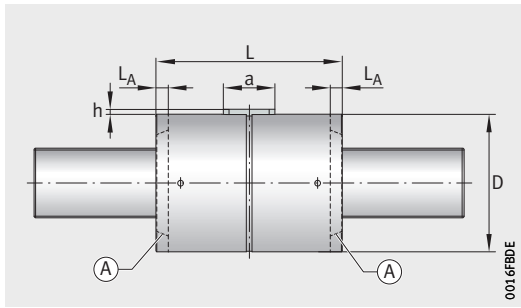
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
44	RGT-VTG-044.12	12	6	A	●	2,1	82	90	–	32	6	2,5
				B	–	2,5		90	–			
	RGT-VTG-044.24	24	6	A	●	2,1	82	90	–	32	6	2,5
				B	–	2,5		90	–			
	RGT-VTG-044.30	30	6	A	●	2,1	82	90	–	32	6	2,5
				B	–	2,5		90	–			
	RGT-VTG-044.36	36	6	A	●	2,1	82	90	–	32	6	2,5
				B	–	2,5		90	–			
	RGT-VTG-044.42	42	6	A	●	2,1	82	90	–	32	6	2,5
				B	–	2,5		90	–			

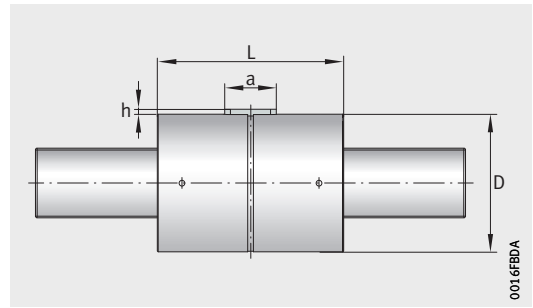
ⓐ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

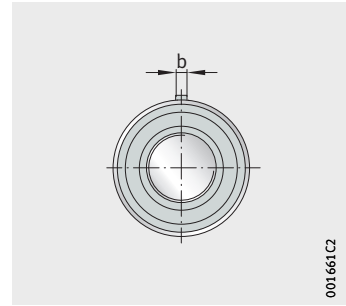


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
6×6×32	73 200	103 500	29,0	180	0,86	0,83	4 100
	90 800	146 400	34,1				
6×6×32	76 000	89 700	16,9	280	0,85	0,82	4 100
	100 600	140 000	20,9				
6×6×32	85 600	103 000	15,4	320	0,82	0,78	4 100
	106 700	145 600	18,2				
6×6×32	76 800	84 100	12,3	360	0,77	0,71	4 100
	103 300	133 700	15,4				
6×6×32	89 500	105 300	12,3	400	0,71	0,59	4 100
	105 100	134 800	13,9				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

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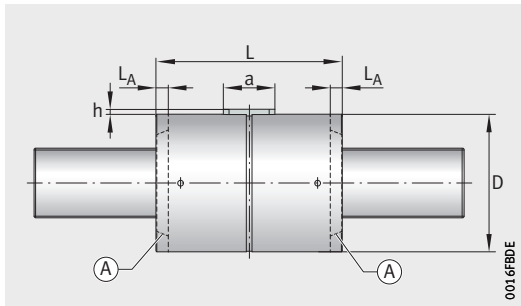
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
48	RGT-VTG-048.05	5	5	A	–	3,2	96	95	–	40	6	2,5
				A	●	3,5		113	–			
				B	–	3,7		113	–			
		5	5	C	–	4,0	100	127	–	45	8	3
				C	●	4,2		127	–			
				D	–	4,3		127	–			
	RGT-VTG-048.10	10	5	A	–	3,2	96	95	–	40	6	2,5
				A	●	3,5		113	–			
				B	–	3,7		113	–			
		10	5	C	–	4,0	100	127	–	45	8	3
				C	●	4,2		127	–			
				D	–	4,3		127	–			
RGT-VTG-048.20	20	5	A	–	3,2	96	95	–	40	6	2,5	
			A	●	3,5		113	–				
			B	–	3,7		113	–				
	20	5	C	–	4,0	100	127	–	45	8	3	
			C	●	4,2		127	–				
			D	–	4,3		127	–				

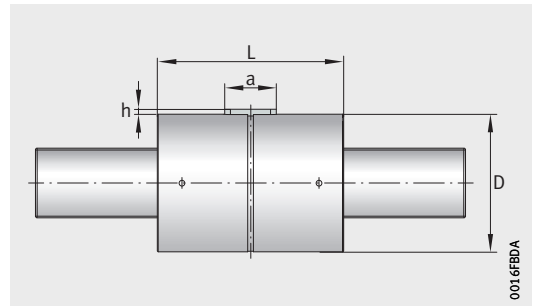
Ⓐ Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

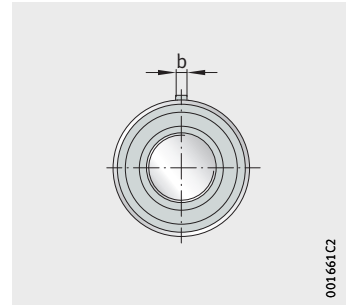


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
6×6×40	91 000	174 700	56,6	180	0,76	0,69	3 800
	91 000	174 700	56,6				
	117 600	267 300	69,0				
8×7×45	111 800	246 100	66,3	180	0,76	0,69	3 800
	111 800	246 100	66,3				
	137 500	343 600	77,9				
6×6×40	104 100	166 400	34,7	200	0,84	0,81	3 800
	104 100	166 400	34,7				
	135 600	258 200	42,6				
8×7×45	128 700	237 200	40,9	200	0,84	0,81	3 800
	128 700	237 200	40,9				
	159 300	334 000	48,3				
6×6×40	118 100	159 800	21,3	280	0,86	0,84	3 800
	118 100	159 800	21,3				
	159 300	261 100	26,9				
8×7×45	151 200	240 100	25,8	280	0,86	0,84	3 800
	151 200	240 100	25,8				
	183 200	325 900	29,9				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

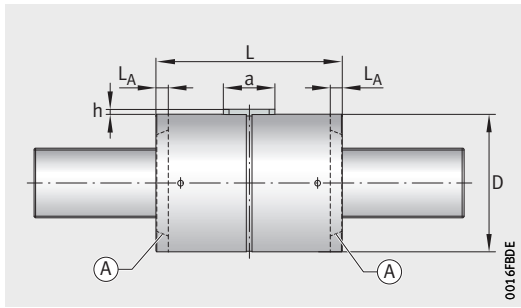
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Dimension table (continued) · Dimensions in mm

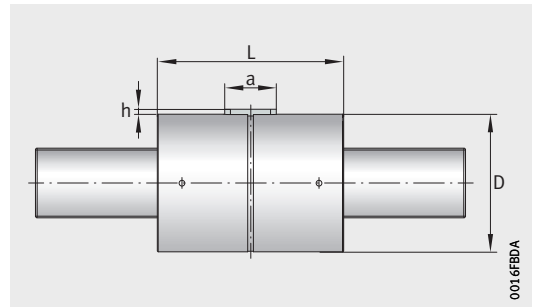
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
48	RGT-VTG-048.30 ³⁾	30	5	A	–	3,2	96	95	–	40	6	2,5
				A	●	3,5		113	–			
				B	–	3,7		113	–			
		30	5	C	–	4,0	100	127	–	45	8	3
				C	●	4,2		127	–			
				D	–	4,3		127	–			
	RGT-VTG-048.40	40	5	A	–	3,2	96	95	–	40	6	2,5
				A	●	3,5		113	–			
				B	–	3,7		113	–			
		40	5	C	–	4,0	100	127	–	45	8	3
				C	●	4,2		127	–			
				D	–	4,3		127	–			

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTG.
- 3) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 326.



With wiper

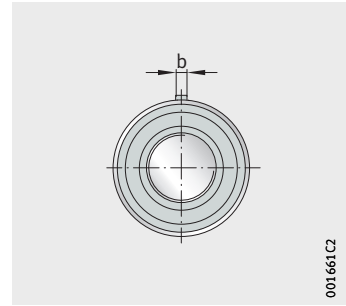


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
6×6×40	122 700	162 700	16,2	340	0,83	0,80	3 800
	122 700	162 700	16,2				
	161 400	253 500	20,1				
8×7×45	148 700	222 300	18,9	340	0,83	0,80	3 800
	148 700	222 300	18,9				
	186 300	317 700	22,5				
6×6×40	121 900	165 400	13,4	420	0,77	0,69	3 800
	121 900	165 400	13,4				
	156 100	245 800	16,2				
8×7×45	156 100	245 800	16,2	420	0,77	0,69	3 800
	156 100	245 800	16,2				
	189 200	331 300	18,9				

Roller screw drives

Cylindrical nut, two-piece
Standard design



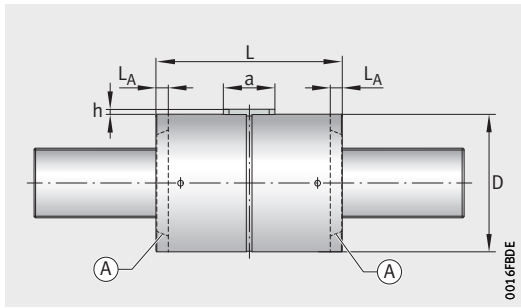
RGT-VTG

Dimension table (continued) · Dimensions in mm

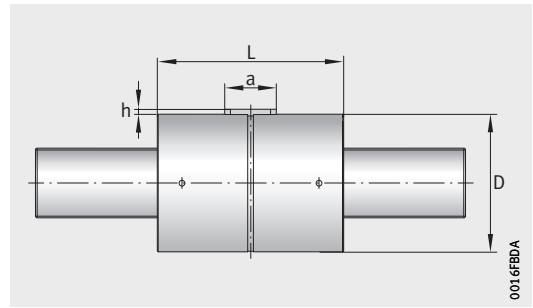
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
48	RGT-VTG-048.06	6	6	A	–	3,0	86	94	–	40	6	2,5
				A	●	3,3		104	–			
	RGT-VTG-048.12	12	6	A	–	3,0	86	94	–	40	6	2,5
				A	●	3,3		104	–			
	RGT-VTG-048.18	18	6	A	–	3,0	86	94	–	40	6	2,5
				A	●	3,3		104	–			
	RGT-VTG-048.30 ³⁾	30	6	A	–	3,0	86	94	–	40	6	2,5
				A	●	3,3		104	–			

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Overrunning frictional torque for preloaded nuts RGT-VTG.
- 3) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 324.



With wiper

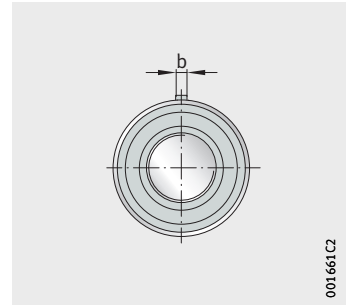


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
6×6×40	81 100	166 900	57,4	200	0,79	0,73	3 800
	81 100	166 900	57,4				
6×6×40	94 100	163 500	35,7	250	0,85	0,83	3 800
	94 100	163 500	35,7				
6×6×40	103 400	164 900	27,2	280	0,86	0,84	3 800
	103 400	164 900	27,2				
6×6×40	109 000	153 300	18,5	380	0,83	0,80	3 800
	109 000	153 300	18,5				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

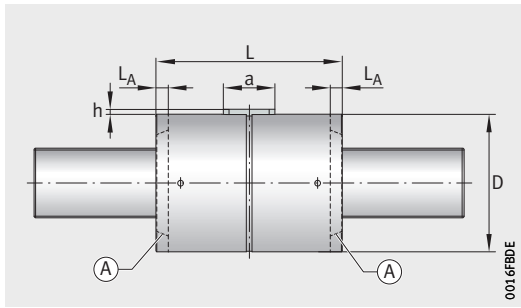
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
56	RGT-VTG-056.12	12	6	A	●	4,2	105	112	–	40	8	3
				B	–	4,7		112	–			
	RGT-VTG-056.24	24	6	A	●	4,2	105	112	–	40	8	3
				B	–	4,7		112	–			
	RGT-VTG-056.30	30	6	A	●	4,2	105	112	–	40	8	3
				B	–	4,7		112	–			
	RGT-VTG-056.36	36	6	A	●	4,2	105	112	–	40	8	3
				B	–	4,7		112	–			

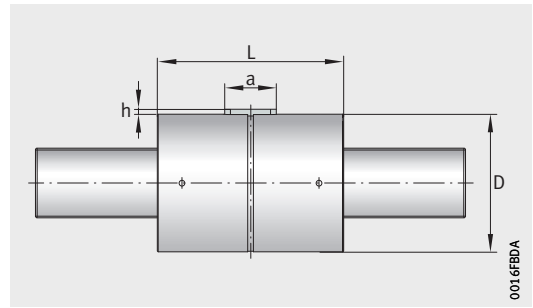
ⓐ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Overrunning frictional torque for preloaded nuts RGT-VTG.



With wiper

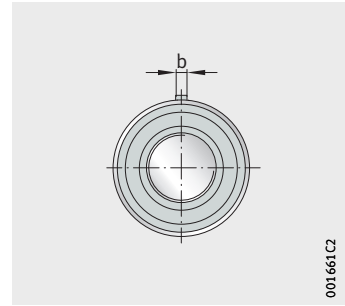


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
8×7×40	107 600	167 700	35,7	320	0,84	0,81	3 500
	143 900	267 400	44,5				
8×7×40	119 900	160 400	21,8	400	0,86	0,84	3 500
	166 700	270 500	28,0				
8×7×40	127 700	167 200	19,1	480	0,85	0,82	3 500
	176 500	277 700	24,4				
8×7×40	121 700	153 100	16,2	560	0,83	0,79	3 500
	166 600	250 700	20,5				

Roller screw drives

Cylindrical nut, two-piece
Standard design



RGT-VTG

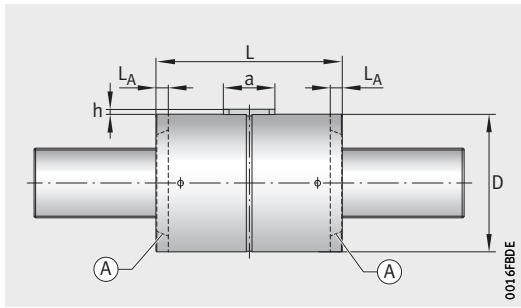
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
63	RGT-VTG-063.05	5	5	A	–	5,9	118	115	–	45	8	3
				A	●	6,1		133	–			
		5	5	C	–	7,8	122	152	–	45	8	3
				C	●	7,8		152	–			
				D	–	8,5		152	–			
				D	–	8,5		152	–			
	RGT-VTG-063.10 ²⁾	10	5	A	–	5,9	118	115	–	45	8	3
				A	●	6,1		133	–			
		10	5	C	–	7,8	122	152	–	45	8	3
				C	●	7,8		152	–			
				D	–	8,5		152	–			
				D	–	8,5		152	–			
RGT-VTG-063.15	15	5	A	–	5,9	118	115	–	45	8	3	
			A	●	6,1		133	–				
	15	5	C	–	7,8	122	152	–	45	8	3	
			C	●	7,8		152	–				
			D	–	8,5		152	–				
			D	–	8,5		152	–				
RGT-VTG-063.20	20	5	A	–	5,9	118	115	–	45	8	3	
			A	●	6,1		133	–				
	20	5	C	–	7,8	122	152	–	45	8	3	
			C	●	7,8		152	–				
			D	–	8,5		152	–				
			D	–	8,5		152	–				
RGT-VTG-063.30	30	5	A	–	5,9	118	115	–	45	8	3	
			A	●	6,1		133	–				
	30	5	C	–	7,8	122	152	–	45	8	3	
			C	●	7,8		152	–				
			D	–	8,5		152	–				
			D	–	8,5		152	–				

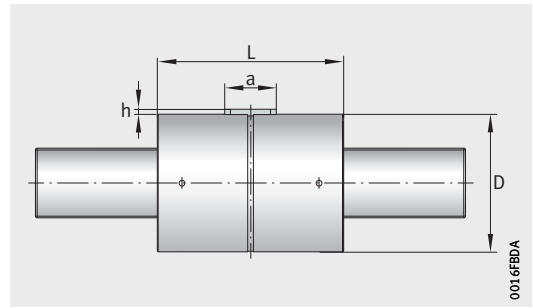
⊗ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 334.



With wiper

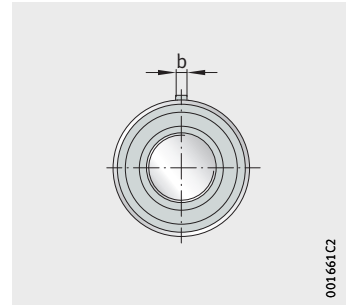


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
8×7×45	137 000	254 200	66,2	-	0,72	0,61	3 000
	137 000	254 200	66,2				
10×8×45	174 000	378 000	79,4	-	0,72	0,61	3 000
	174 000	378 000	79,4				
	209 800	510 200	91,5				
8×7×45	157 600	250 000	41,3	-	0,82	0,78	3 000
	157 600	250 000	41,3				
10×8×45	203 100	380 100	50,0	-	0,82	0,78	3 000
	203 100	380 100	50,0				
	242 800	505 100	57,2				
8×7×45	172 300	252 000	31,5	-	0,85	0,82	3 000
	172 300	252 000	31,5				
10×8×45	217 100	368 600	37,5	-	0,85	0,82	3 000
	217 100	368 600	37,5				
	267 800	514 100	44,0				
8×7×45	179 700	254 000	26,0	-	0,86	0,84	3 000
	179 700	254 000	26,0				
10×8×45	221 300	357 200	30,4	-	0,86	0,84	3 000
	221 300	357 200	30,4				
	271 700	494 800	35,6				
8×7×45	180 000	257 900	19,8	-	0,86	0,83	3 000
	180 000	257 900	19,8				
10×8×45	226 800	374 400	23,6	-	0,86	0,83	3 000
	226 800	374 400	23,6				
	272 200	498 600	27,1				

Roller screw drives

Cylindrical nut, two-piece
Standard design



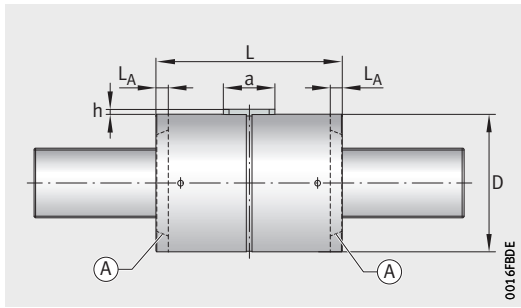
RGT-VTG

Dimension table (continued) · Dimensions in mm

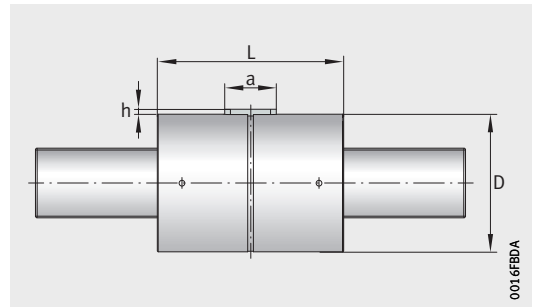
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
63	RGT-VTG-063.40	40	5	A	–	5,9	118	115	–	45	8	3
				A	●	6,1		133	–			
		40	5	C	–	7,8	122	152	–	45	8	3
				C	●	7,8		152	–			
				D	–	8,5		152	–			
				D	–	8,5		152	–			
	RGT-VTG-063.45	45	5	A	–	5,9	118	115	–	45	8	3
				A	●	6,1		133	–			
		45	5	C	–	7,8	122	152	–	45	8	3
				C	●	7,8		152	–			
				D	–	8,5		152	–			
				D	–	8,5		152	–			

ⓐ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.



With wiper

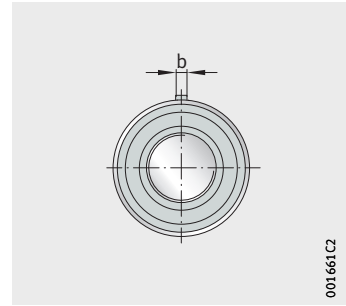


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
8×7×45	168 700	237 100	15,6	-	0,83	0,80	3 000
	168 700	237 100	15,6				
10×8×45	210 400	338 400	18,5	-	0,83	0,80	3 000
	210 400	338 400	18,5				
	271 100	502 200	22,4				
8×7×45	162 700	226 800	141,0	-	0,81	0,76	3 000
	162 700	226 800	141,0				
10×8×45	209 600	340 200	17,1	-	0,81	0,76	3 000
	209 600	340 200	17,1				
	255 100	462 100	19,8				

Roller screw drives

Cylindrical nut, two-piece
Standard design



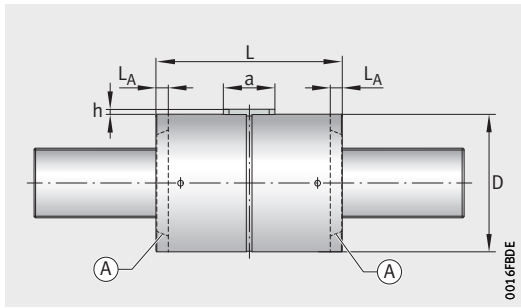
RGT-VTG

Dimension table (continued) · Dimensions in mm

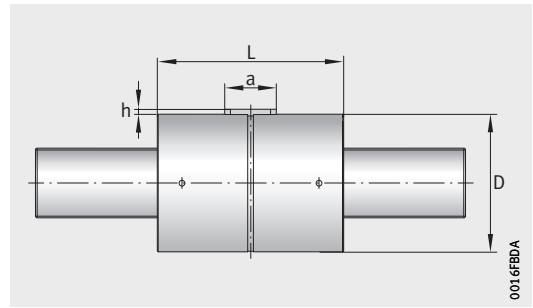
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions			Mounting dimensions		
							D g6	L h12	L_A	a	b h9	h
63	RGT-VTG-063.10 ²⁾	10	6	A	–	4,6	115	111	–	45	8	3
				A	●	6,1	120	129	–			
				B	–	7,3	120	129	–			
	RGT-VTG-063.12	12	6	A	–	4,6	115	111	–	45	8	3
				A	●	6,1	120	129	–			
				B	–	7,3	120	129	–			
	RGT-VTG-063.18	18	6	A	–	4,6	115	111	–	45	8	3
				A	●	6,1	120	129	–			
				B	–	7,3	120	129	–			
	RGT-VTG-063.24	24	6	A	–	4,6	115	111	–	45	8	3
				A	●	6,1	120	129	–			
				B	–	7,3	120	129	–			

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 330.



With wiper

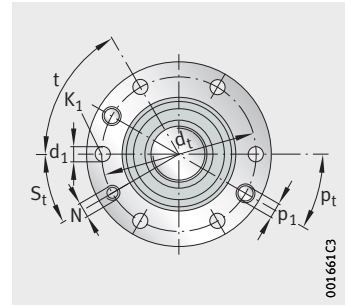


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N			η_1	η_2	
8×7×45	145 300	271 600	50,3	-	0,82	0,78	3 000
	145 300	271 600	50,3				
	176 000	367 800	58,2				
8×7×45	152 000	274 300	44,7	-	0,83	0,80	3 000
	152 000	274 300	44,7				
	181 800	364 000	51,2				
8×7×45	161 300	263 700	33,4	-	0,86	0,83	3 000
	161 300	263 700	33,4				
	196 300	359 200	38,8				
8×7×45	171 300	265 500	27,6	-	0,86	0,84	3 000
	171 300	265 500	27,6				
	201 200	341 400	31,1				

Roller screw drives

Flanged nut, two-piece
Standard design



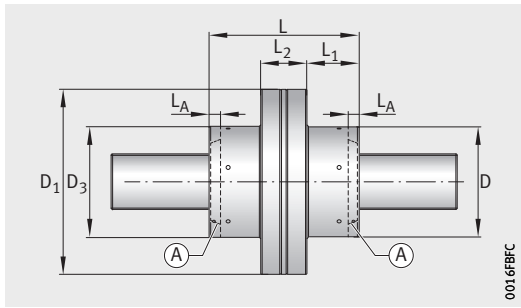
RGT-VTL

Dimension table · Dimensions in mm

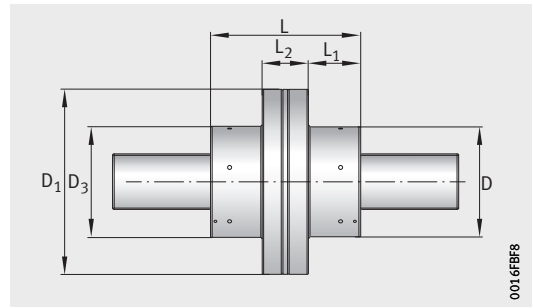
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
5	RGT-VTL-005.01	1	3	A	–	0,2	19	40	19	31	–	9,5	12
				A	●	0,2				41	–	14,5	
				B	–	0,2				41	–	14,5	
	RGT-VTL-005.02	2	3	A	–	0,2	19	40	19	31	–	9,5	12
				A	●	0,2				41	–	14,5	
				B	–	0,2				41	–	14,5	
	RGT-VTL-005.04	4	3	A	–	0,2	19	40	19	31	–	9,5	12
				A	●	0,2				41	–	14,5	
				B	–	0,2				41	–	14,5	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

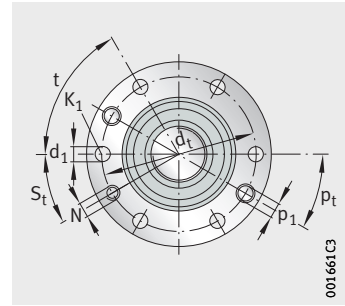


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_{κ} $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
30	60	4,5	M4	5	30	M6	30	2 600	4 800	22,5	3	0,85	0,82	6 000
								2 600	4 800	22,5				
								4 100	10 300	32,3				
30	60	4,5	M4	5	30	M6	30	3 000	4 900	14,2	4	0,86	0,84	6 000
								3 000	4 900	14,2				
								4 800	10 400	20,3				
30	60	4,5	M4	5	30	M6	30	3 300	4 600	8,7	5	0,74	0,65	6 000
								3 300	4 600	8,7				
								5 500	10 500	12,8				

Roller screw drives

Flanged nut, two-piece
Standard design



RGT-VTL

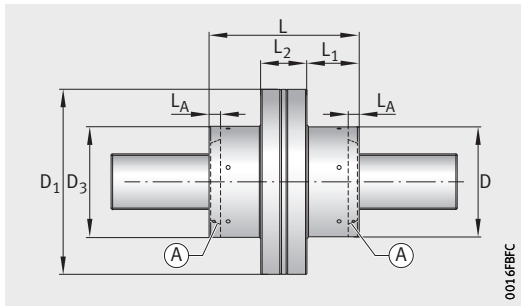
001661C3

Dimension table (continued) · Dimensions in mm

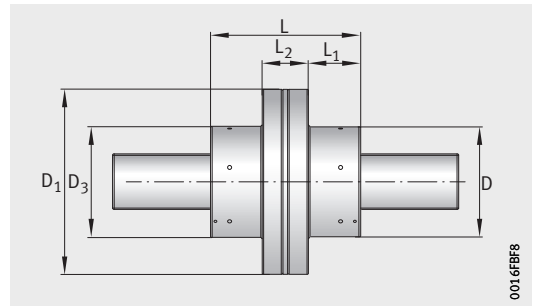
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
8	RGT-VTL-008.01	1	4	A	–	0,2	21	41	21	31	–	7,5	16
				A	●	0,2				41	–	12,5	
				B	–	0,2				41	–	12,5	
		1	4	C	–	0,3	25	46	25	44	–	14,0	16
				C	●	0,3				44	–	14,0	
				D	–	0,3				44	–	14,0	
	RGT-VTL-008.02	2	4	A	–	0,2	21	41	21	31	–	7,5	16
				A	●	0,2				41	–	12,5	
				B	–	0,2				41	–	12,5	
		2	4	C	–	0,3	25	46	25	44	–	14,0	16
				C	●	0,3				44	–	14,0	
				D	–	0,3				44	–	14,0	
	RGT-VTL-008.04	4	4	A	–	0,2	21	41	21	31	–	7,5	16
				A	●	0,2				41	–	12,5	
				B	–	0,2				41	–	12,5	
		4	4	C	–	0,3	25	46	25	44	–	14,0	16
				C	●	0,3				44	–	14,0	
				D	–	0,3				44	–	14,0	
RGT-VTL-008.05	5	4	A	–	0,2	21	41	21	31	–	7,5	16	
			A	●	0,2				41	–	12,5		
			B	–	0,2				41	–	12,5		
	5	4	C	–	0,3	25	46	25	44	–	14,0	16	
			C	●	0,3				44	–	14,0		
			D	–	0,3				44	–	14,0		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

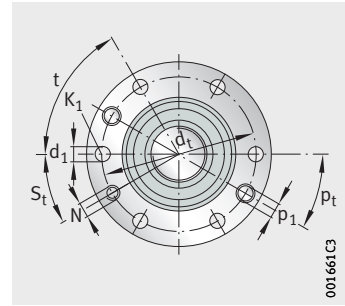


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings			Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N	c_K			η_1	η_2	
31	60	4,5	M4	5	30	M6	30	4 100	7 300	34,0	3	0,79	0,73	5 800	
								4 100	7 300	34,0					
								6 600	15 400	48,7					
36	60	4,5	M4	5	30	M6	30	4 900	9 600	38,7	3	0,79	0,73	5 800	
								4 900	9 600	38,7					
								7 300	18 000	52,7					
31	60	4,5	M4	5	30	M6	30	4 800	7 400	21,4	4	0,85	0,83	5 800	
								4 800	7 400	21,4					
								7 700	15 500	30,7					
36	60	4,5	M4	5	30	M6	30	5 700	9 700	24,4	4	0,85	0,83	5 800	
								5 700	9 700	24,4					
								8 500	18 000	33,2					
31	60	4,5	M4	5	30	M6	30	5 500	7 500	13,5	5	0,85	0,83	5 800	
								5 500	7 500	13,5					
								8 900	15 600	19,3					
36	60	4,5	M4	5	30	M6	30	6 600	9 800	15,4	5	0,85	0,83	5 800	
								6 600	9 800	15,4					
								9 800	18 100	20,9					
31	60	4,5	M4	5	30	M6	30	5 700	7 300	11,5	6	0,83	0,80	5 800	
								5 700	7 300	11,5					
								9 200	15 400	16,5					
36	60	4,5	M4	5	30	M6	30	6 600	9 300	12,8	6	0,83	0,80	5 800	
								6 600	9 300	12,8					
								10 000	17 500	17,7					

Roller screw drives

Flanged nut, two-piece
Standard design



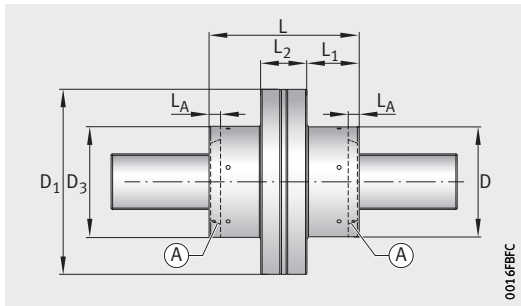
RGT-VTL

Dimension table (continued) - Dimensions in mm

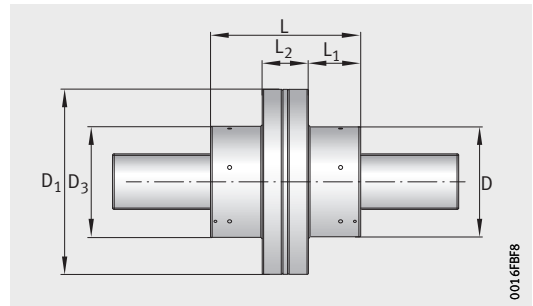
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
12	RGT-VTL-012.01	1	4	A	-	0,3	32	51	32	31	-	7,5	16
				A	●	0,3				41	-	12,5	
				B	-	0,3				41	-	12,5	
		1	4	C	-	0,3	32	51	32	44	-	14,0	16
				C	●	0,3				44	-	14,0	
				D	-	0,3				44	-	14,0	
	RGT-VTL-012.02	2	5	A	-	0,3	30	51	30	31	-	7,5	16
				A	●	0,3				41	-	12,5	
				B	-	0,3				41	-	12,5	
		2	5	C	-	0,3	30	51	30	44	-	14,0	16
				C	●	0,3				44	-	14,0	
	RGT-VTL-012.04	4	5	A	-	0,3	30	51	30	31	-	7,5	16
				A	●	0,3				41	-	12,5	
				B	-	0,3				41	-	12,5	
		4	5	C	-	0,3	30	51	30	44	-	14,0	16
				C	●	0,3				44	-	14,0	
RGT-VTL-012.05	5	5	A	-	0,3	30	51	30	31	-	7,5	16	
			A	●	0,3				41	-	12,5		
			B	-	0,3				41	-	12,5		
	5	5	C	-	0,3	30	51	30	44	-	14,0	16	
			C	●	0,3				44	-	14,0		
RGT-VTL-012.10	10	5	A	-	0,3	30	51	30	31	-	7,5	16	
			A	●	0,3				41	-	12,5		
			B	-	0,3				41	-	12,5		
	10	5	C	-	0,3	30	51	30	44	-	14,0	16	
			C	●	0,3				44	-	14,0		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

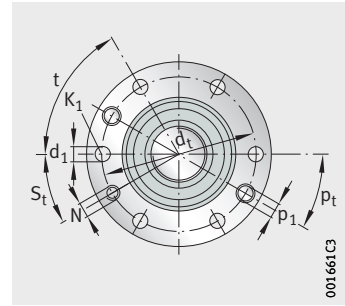


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_{κ} $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t	d_1	K_1	p_1	p_t	N	S_t	dyn. C N	stat. C_0 N			η_1	η_2	
41	60	4,5	M4	5	30	M6	30	6 200	7 600	32,7	3	0,73	0,62	5 600
								6 200	7 600	32,7				
								10 400	18 000	48,2				
41	60	4,5	M4	5	30	M6	30	7 400	10 300	37,2	3	0,73	0,62	5 600
								7 400	10 300	37,2				
								11 200	20 100	50,7				
41	60	4,5	M4	5	30	M6	30	7 400	10 000	29,5	4	0,82	0,78	5 600
								7 400	10 000	29,5				
								13 200	24 300	45,5				
41	60	4,5	M4	5	30	M6	30	8 700	13 000	33,3	4	0,82	0,78	5 600
								8 700	13 000	33,3				
41	60	4,5	M4	5	30	M6	30	8 300	9 700	18,2	5	0,86	0,84	5 600
								8 300	9 700	18,2				
								15 100	24 000	28,4				
41	60	4,5	M4	5	30	M6	30	10 100	13 100	21,0	5	0,86	0,84	5 600
								10 100	13 100	21,0				
41	60	4,5	M4	5	30	M6	30	8 900	10 200	16,0	6	0,86	0,84	5 600
								8 900	10 200	16,0				
								16 100	24 700	24,8				
41	60	4,5	M4	5	30	M6	30	1 060	13 400	18,2	6	0,86	0,84	5 600
								1 060	13 400	18,2				
41	60	4,5	M4	5	30	M6	30	10 000	10 500	10,1	8	0,77	0,69	5 600
								10 000	10 500	10,1				
								17 400	23 800	15,2				
41	60	4,5	M4	5	30	M6	30	11 300	12 600	11,0	8	0,77	0,69	5 600
								11 300	12 600	11,0				

Roller screw drives

Flanged nut, two-piece
Standard design



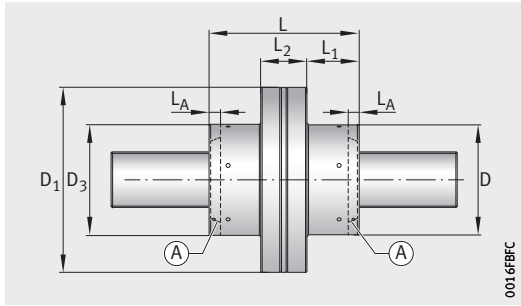
RGT-VTL

Dimension table (continued) · Dimensions in mm

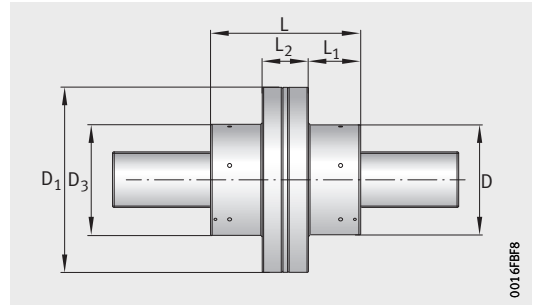
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
15	RGT-VTL-015.02	2	5	A	–	0,4	34	58	34	35	–	8,5	18
				A	●	0,4				45	–	13,5	
				B	–	0,4				45	–	13,5	
		2	5	C	–	0,5	35	58	35	50	–	16,0	18
				C	●	0,5				50	–	16,0	
				D	–	0,5				50	–	16,0	
	RGT-VTL-015.04	4	5	A	–	0,4	34	58	34	35	–	8,5	18
				A	●	0,4				45	–	13,5	
				B	–	0,4				45	–	13,5	
		4	5	C	–	0,5	35	58	35	50	–	16,0	18
				C	●	0,5				50	–	16,0	
				D	–	0,5				50	–	16,0	
	RGT-VTL-015.05	5	5	A	–	0,4	34	58	34	35	–	8,5	18
				A	●	0,4				45	–	13,5	
				B	–	0,4				45	–	13,5	
		5	5	C	–	0,5	35	58	35	50	–	16,0	18
				C	●	0,5				50	–	16,0	
				D	–	0,5				50	–	16,0	
RGT-VTL-015.06	6	5	A	–	0,4	34	58	34	35	–	8,5	18	
			A	●	0,4				45	–	13,5		
			B	–	0,4				45	–	13,5		
	6	5	C	–	0,5	35	58	35	50	–	16,0	18	
			C	●	0,5				50	–	16,0		
			D	–	0,5				50	–	16,0		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

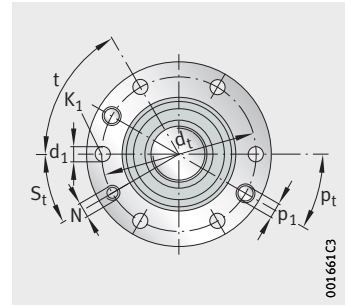


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings			Spring characteristic number c_{κ} $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N	c_{κ}			η_1	η_2	
46	60	5,5	M5	5	30	M6	30	8 700	11 200	30,6	6	0,80	0,75	5 500	
								8 700	11 200	30,6					
								14 000	24 300	43,8					
46	60	5,5	M5	5	30	M6	30	11 300	17 300	37,2	6	0,80	0,75	5 500	
								11 300	17 300	37,2					
								16 500	31 100	49,5					
46	60	5,5	M5	5	30	M6	30	9 800	10 900	18,9	7	0,86	0,83	5 500	
								9 800	10 900	18,9					
								16 200	24 500	27,6					
46	60	5,5	M5	5	30	M6	30	12 800	16 900	23,1	7	0,86	0,83	5 500	
								12 800	16 900	23,1					
								19 100	31 300	31,2					
46	60	5,5	M5	5	30	M6	30	10 500	11 500	16,6	9	0,86	0,84	5 500	
								10 500	11 500	16,6					
								17 000	24 500	23,8					
46	60	5,5	M5	5	30	M6	30	13 800	17 800	20,4	9	0,86	0,84	5 500	
								13 800	17 800	20,4					
								20 100	31 600	27,0					
46	60	5,5	M5	5	30	M6	30	10 300	10 600	14,1	10	0,86	0,84	5 500	
								10 300	10 600	14,1					
								17 600	24 600	21,1					
46	60	5,5	M5	5	30	M6	30	13 600	16 500	17,4	10	0,86	0,84	5 500	
								13 600	16 500	17,4					
								20 700	31 400	23,8					

Roller screw drives

Flanged nut, two-piece
Standard design



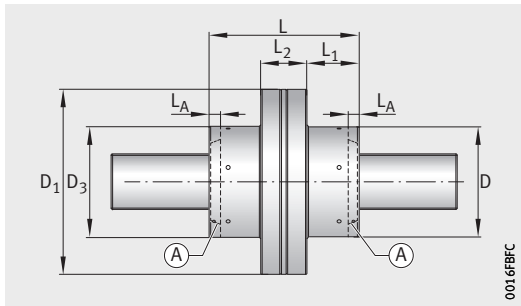
RGT-VTL

Dimension table (continued) · Dimensions in mm

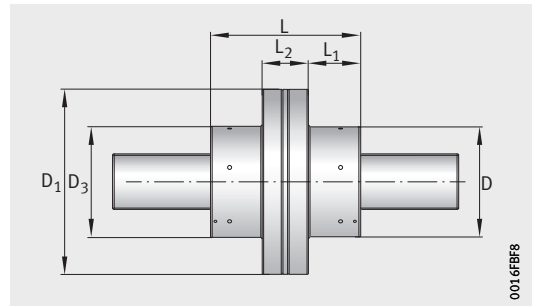
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃	L	L _A	L ₁	L ₂
15	RGT-VTL-015.08	8	5	A	–	0,4	34	58	34	35	–	8,5	18
				A	●	0,4				45	–	13,5	
				B	–	0,4				45	–	13,5	
		8	5	C	–	0,5	35	58	35	50	–	16,0	18
				C	●	0,5				50	–	16,0	
				D	–	0,5				50	–	16,0	
	RGT-VTL-015.10	10	5	A	–	0,4	34	58	34	35	–	8,5	18
				A	●	0,4				45	–	13,5	
				B	–	0,4				45	–	13,5	
		10	5	C	–	0,5	35	58	35	50	–	16,0	18
				C	●	0,5				50	–	16,0	
				D	–	0,5				50	–	16,0	

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

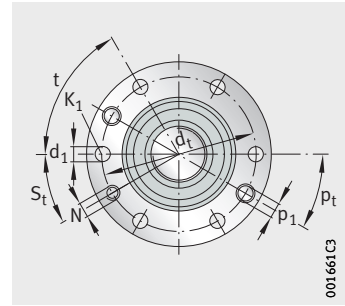


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings			Spring characteristic number c_k $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N	η_1			η_2		
46	60	5,5	M5	5	30	M6	30	10 600	10 300	11,4	12	0,85	0,82	5 500	
								10 600	10 300	11,4					
								17 400	22 600	16,6					
46	60	5,5	M5	5	30	M6	30	14 100	16 200	14,1	12	0,85	0,82	5 500	
								14 100	16 200	14,1					
								20 700	29 300	18,9					
46	60	5,5	M5	5	30	M6	30	10 400	9 500	9,4	14	0,82	0,78	5 500	
								10 400	9 500	9,4					
								17 800	22 200	14,1					
46	60	5,5	M5	5	30	M6	30	14 900	16 800	12,4	14	0,82	0,78	5 500	
								14 900	16 800	12,4					
								22 100	30 500	16,6					

Roller screw drives

Flanged nut, two-piece
Standard design



RGT-VTL

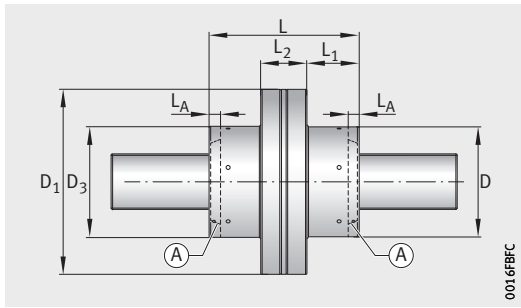
001661C3

Dimension table (continued) · Dimensions in mm

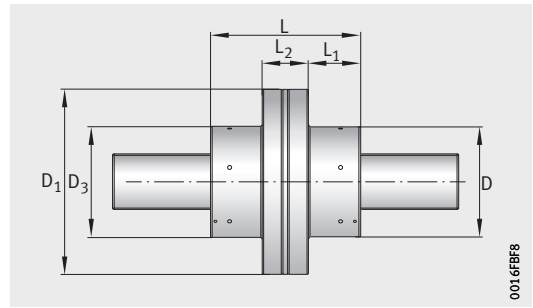
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions						
							D g6	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
20	RGT-VTL-020.02	2	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	
	RGT-VTL-020.04	4	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	
	RGT-VTL-020.05	5	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	
	RGT-VTL-020.06	6	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	
	RGT-VTL-020.10	10	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	
	RGT-VTL-020.12	12	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	
	RGT-VTL-020.20	20	5	A	–	0,6	42	68	42	55	–	18,5	18
				A	●	0,7				65	–	23,5	
				B	–	0,7				65	–	23,5	

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

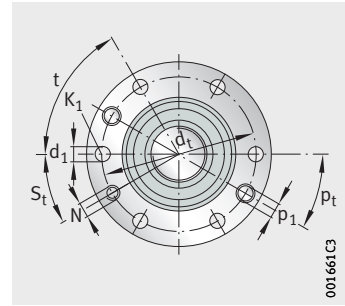


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
56	60	5,5	M5	6	30	M6	30	17 800	33 200	49,3	18	0,76	0,69	5 200
								17 800	33 200	49,3				
								23 500	51 400	60,9				
56	60	5,5	M5	6	30	M6	30	20 500	32 700	30,8	20	0,84	0,81	5 200
								20 500	32 700	30,8				
								27 400	51 600	38,4				
56	60	5,5	M5	6	30	M6	30	21 900	33 900	26,9	24	0,85	0,83	5 200
								21 900	33 900	26,9				
								28 900	52 000	33,2				
56	60	5,5	M5	6	30	M6	30	22 400	32 900	23,5	26	0,86	0,84	5 200
								22 400	32 900	23,5				
								29 400	50 200	28,9				
56	60	5,5	M5	6	30	M6	30	24 500	32 600	16,5	35	0,85	0,83	5 200
								24 500	32 600	16,5				
								32 600	50 600	20,5				
56	60	5,5	M5	6	30	M6	30	25 600	33 500	14,8	40	0,83	0,80	5 200
								25 600	33 500	14,8				
								33 700	50 800	18,2				
56	60	5,5	M5	6	30	M6	30	25 400	30 100	9,9	50	0,67	0,50	5 200
								25 400	30 100	9,9				
								36 200	51 500	12,9				

Roller screw drives

Flanged nut, two-piece
Standard design



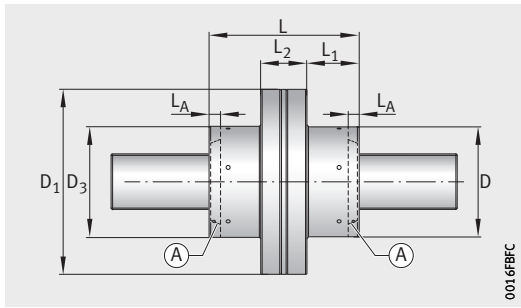
RGT-VTL

Dimension table (continued) - Dimensions in mm

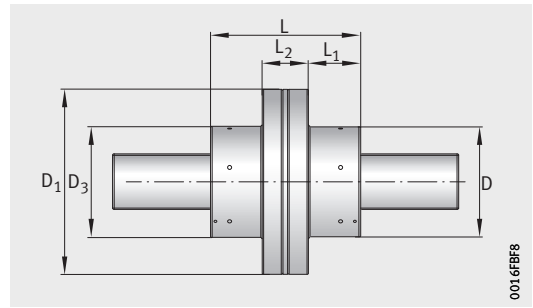
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
21	RGT-VTL-021.02	2	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	
	RGT-VTL-021.04	4	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	
	RGT-VTL-021.05	5	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	
	RGT-VTL-021.06	6	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	
	RGT-VTL-021.10	10	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	
	RGT-VTL-021.12	12	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	
	RGT-VTL-021.20	20	5	A	●	0,7	45	68	45	64	–	23	18
				B	–	0,7				64	–	23	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

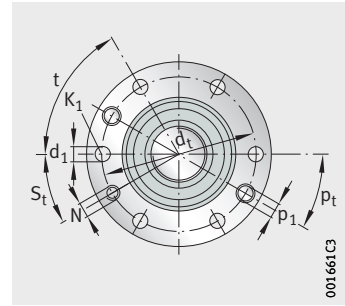


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
56	60	5,5	M5	6	30	M6	30	24 000	45 100	58,8	20	0,75	0,67	5 200
								31 300	68 800	72,1				
56	60	5,5	M5	6	30	M6	30	28 400	45 300	37,0	22	0,83	0,80	5 200
								36 700	68 100	45,1				
56	60	5,5	M5	6	30	M6	30	30 000	45 500	31,9	25	0,85	0,82	5 200
								39 000	69 200	39,1				
56	60	5,5	M5	6	30	M6	30	30 900	44 700	28,0	30	0,86	0,83	5 200
								40 000	67 300	34,2				
56	60	5,5	M5	6	30	M6	30	33 000	41 600	19,1	38	0,86	0,83	5 200
								43 600	64 900	23,8				
56	60	5,5	M5	6	30	M6	30	34 700	42 800	17,1	45	0,84	0,81	5 200
								45 300	65 200	21,1				
56	60	5,5	M5	6	30	M6	30	30 600	31 400	10,0	60	0,71	0,59	5 200
								39 200	46 300	12,1				

Roller screw drives

Flanged nut, two-piece
Standard design



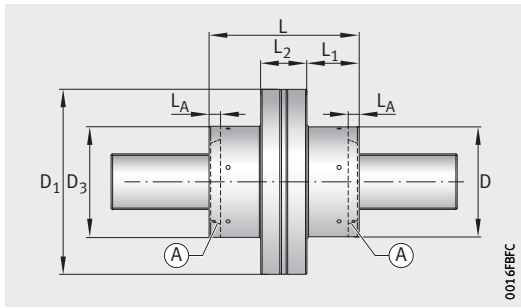
RGT-VTL

Dimension table (continued) - Dimensions in mm

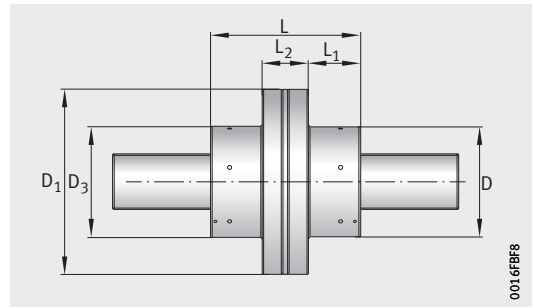
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions						
							D g6	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
24	RGT-VTL-024.02	2	5	A	–	0,8	48	80	48	55	–	17,5	20
				A	●	0,9				65	–	22,5	
				B	–	0,9				65	–	22,5	
	RGT-VTL-024.04	4	5	A	–	0,8	48	80	48	55	–	17,5	20
				A	●	0,9				65	–	22,5	
				B	–	0,9				65	–	22,5	
	RGT-VTL-024.05	5	5	A	–	0,8	48	80	48	55	–	17,5	20
				A	●	0,9				65	–	22,5	
				B	–	0,9				65	–	22,5	
	RGT-VTL-024.06	6	5	A	–	0,8	48	80	48	55	–	17,5	20
				A	●	0,9				65	–	22,5	
				B	–	0,9				65	–	22,5	
	RGT-VTL-024.12	12	5	A	–	0,8	48	80	48	55	–	17,5	20
				A	●	0,9				65	–	22,5	
				B	–	0,9				65	–	22,5	
	RGT-VTL-024.20	20	5	A	–	0,8	48	80	48	55	–	17,5	20
				A	●	0,9				65	–	22,5	
				B	–	0,9				65	–	22,5	

Ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

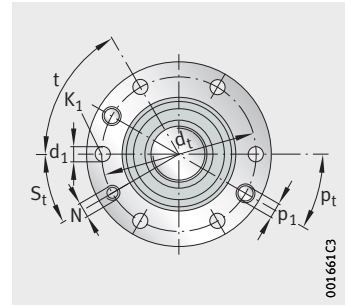


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
66	60	6,5	M6	6	30	M6	30	23 100	38 700	54,5	24	0,73	0,62	5 000
								23 100	38 700	54,5				
								33 400	71 600	72,4				
66	60	6,5	M6	6	30	M6	30	27 400	39 000	34,3	28	0,82	0,78	5 000
								27 400	39 000	34,3				
								39 500	71 900	45,6				
66	60	6,5	M6	6	30	M6	30	28 900	39 200	29,6	32	0,84	0,81	5 000
								28 900	39 200	29,6				
								41 900	72 600	39,5				
66	60	6,5	M6	6	30	M6	30	30 100	39 300	26,2	50	0,85	0,83	5 000
								30 100	39 300	26,2				
								42 700	70 000	34,3				
66	60	6,5	M6	6	30	M6	30	32 200	34 600	15,4	70	0,85	0,83	5 000
								32 200	34 600	15,4				
								70 900	50 000	21,6				
66	60	6,5	M6	6	30	M6	30	33 200	32 000	10,4	85	0,77	0,69	5 000
								33 200	32 000	10,4				
								49 800	61 400	14,2				

Roller screw drives

Flanged nut, two-piece
Standard design



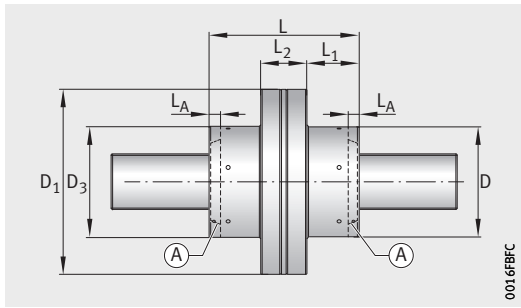
RGT-VTL

Dimension table (continued) · Dimensions in mm

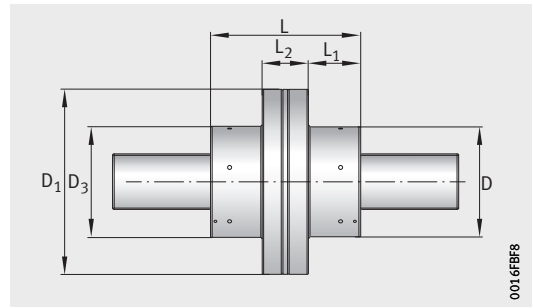
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
25	RGT-VTL-025.02	2	5	A	●	1,3	56	84	56	78	–	29	20
				B	–	1,3				78	–	29	
	RGT-VTL-025.04	4	5	A	●	1,3	56	84	56	78	–	29	20
				B	–	1,3				78	–	29	
	RGT-VTL-025.05	5	5	A	●	1,3	56	84	56	78	–	29	20
				B	–	1,3				78	–	29	
	RGT-VTL-025.06	6	5	A	●	1,3	56	84	56	78	–	29	20
				B	–	1,3				78	–	29	
	RGT-VTL-025.12	12	5	A	●	1,3	56	84	56	78	–	29	20
				B	–	1,3				78	–	29	
	RGT-VTL-025.20	20	5	A	●	1,3	56	84	56	78	–	29	20
				B	–	1,3				78	–	29	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

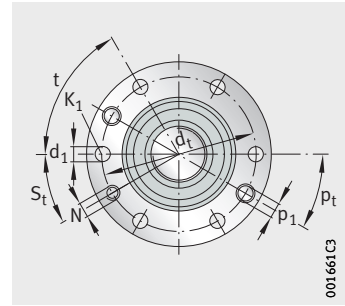


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t	d_1	K_1	p_1	p_t	N	S_t	dyn. C N	stat. C_0 N			η_1	η_2	
70	60	6,5	M6	8	30	M6	30	33 400	71 600	72,4	26	0,73	0,62	5 000
								41 000	99 300	85,0				
70	60	6,5	M6	8	30	M6	30	39 500	71 900	45,6	38	0,82	0,78	5 000
								48 200	98 400	53,2				
70	60	6,5	M6	8	30	M6	30	41 900	72 600	39,5	43	0,84	0,83	5 000
								51 400	100 300	46,3				
70	60	6,5	M6	8	30	M6	30	42 700	70 000	34,3	58	0,85	0,82	5 000
								53 500	99 900	40,9				
70	60	6,5	M6	8	30	M6	30	50 000	70 900	21,6	75	0,85	0,83	5 000
								61 300	97 300	25,3				
70	60	6,5	M6	8	30	M6	30	43 500	50 300	12,4	90	0,77	0,69	5 000
								57 200	76 800	15,4				

Roller screw drives

Flanged nut, two-piece
Standard design



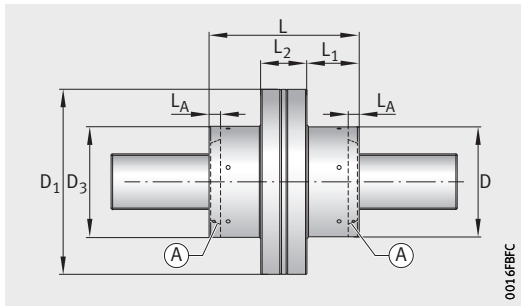
RGT-VTL

Dimension table (continued) - Dimensions in mm

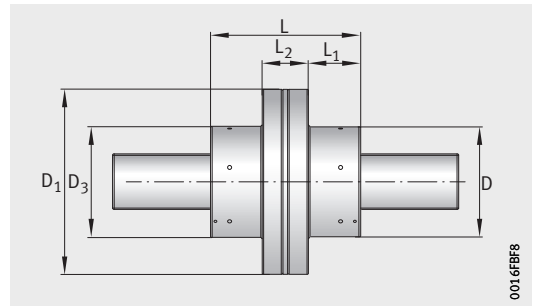
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
27	RGT-VTL-027.02	2	5	A	–	1,1	55	84	55	55	–	17,5	20
				A	●	1,2				69	–	24,5	
				B	–	1,2				69	–	24,5	
		2	5	C	–	1,4	55	84	55	79	–	29,5	20
				C	●	1,4				79	–	29,5	
				D	–	1,4				79	–	29,5	
	RGT-VTL-027.04	4	5	A	–	1,1	55	84	55	55	–	17,5	20
				A	●	1,2				69	–	24,5	
				B	–	1,2				69	–	24,5	
		4	5	C	–	1,4	55	84	55	79	–	29,5	20
				C	●	1,4				79	–	29,5	
				D	–	1,4				79	–	29,5	
	RGT-VTL-027.05	5	5	A	–	1,1	55	84	55	55	–	17,5	20
				A	●	1,2				69	–	24,5	
				B	–	1,2				69	–	24,5	
		5	5	C	–	1,4	55	84	55	79	–	29,5	20
				C	●	1,4				79	–	29,5	
				D	–	1,4				79	–	29,5	
	RGT-VTL-027.06	6	5	A	–	1,1	55	84	55	55	–	17,5	20
				A	●	1,2				69	–	24,5	
				B	–	1,2				69	–	24,5	
		6	5	C	–	1,4	55	84	55	79	–	29,5	20
				C	●	1,4				79	–	29,5	
				D	–	1,4				79	–	29,5	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

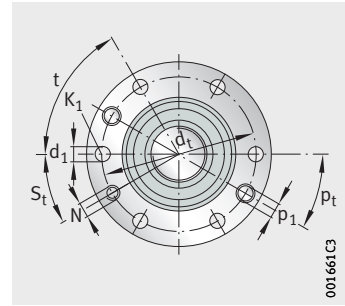


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number	Frictional torque ³⁾	Theoretical efficiency		Limiting speed
d _t	t	d ₁	K ₁	p ₁	p _t	N	S _t	dyn. C	stat. C ₀	c _K	M _V	η ₁	η ₂	n _G
	°				°		°	N	N	N ^{2/3} /μm	Ncm			min ⁻¹
70	60	6,5	M6	8	30	M6	30	25 000	37 900	53,8	28	0,71	0,58	4 900
								25 000	37 900	53,8				
								37 900	76 800	74,1				
70	60	6,5	M6	8	30	M6	30	34 300	65 100	68,6	28	0,71	0,58	4 900
								34 300	65 100	68,6				
								46 700	107 200	86,9				
70	60	6,5	M6	8	30	M6	30	28 900	37 300	33,5	40	0,81	0,76	4 900
								28 900	37 300	33,5				
								44 600	77 100	46,7				
70	60	6,5	M6	8	30	M6	30	40 300	65 500	43,2	40	0,81	0,76	4 900
								40 300	65 500	43,2				
								54 500	106 300	54,5				
70	60	6,5	M6	8	30	M6	30	30 000	36 400	28,5	45	0,83	0,80	4 900
								30 000	36 400	28,5				
								46 000	74 900	39,6				
70	60	6,5	M6	8	30	M6	30	41 600	63 400	36,6	45	0,83	0,80	4 900
								41 600	63 400	36,6				
								57 000	105 200	46,7				
70	60	6,5	M6	8	30	M6	30	32 300	38 600	25,9	60	0,85	0,82	4 900
								32 300	38 600	25,9				
								48 000	75 100	35,1				
70	60	6,5	M6	8	30	M6	30	42 400	61 300	31,9	60	0,85	0,82	4 900
								42 400	61 300	31,9				
								59 000	104 100	41,1				

Roller screw drives

Flanged nut, two-piece
Standard design



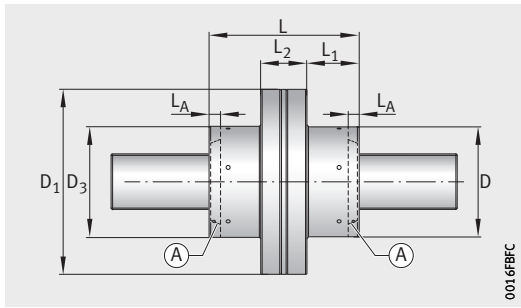
RGT-VTL

Dimension table (continued) · Dimensions in mm

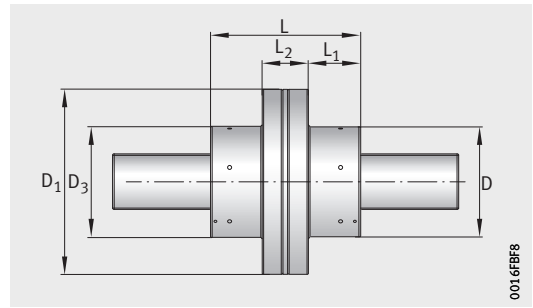
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
27	RGT-VTL-027.08	8	5	A	–	1,1	55	84	55	55	–	17,5	20
				A	●	1,2				69	–	24,5	
				B	–	1,2				69	–	24,5	
			5	C	–	1,4	55	84	55	79	–	29,5	20
				C	●	1,4				79	–	29,5	
				D	–	1,4				79	–	29,5	
	RGT-VTL-027.15	15	5	A	–	1,1	55	84	55	55	–	17,5	20
				A	●	1,2				69	–	24,5	
				B	–	1,2				69	–	24,5	
			5	C	–	1,4	55	84	55	79	–	29,5	20
				C	●	1,4				79	–	29,5	
				D	–	1,4				79	–	29,5	
RGT-VTL-027.25	25	5	B	–	1,2	55	84	55	69	–	24,5	20	
			C	–	1,4				79	–	29,5		
	25	5	C	–	1,4	55	84	55	79	–	29,5	20	
			D	–	1,4				79	–	29,5		

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

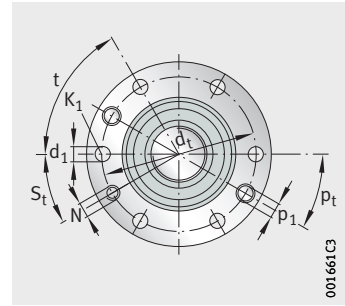


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
70	60	6,5	M6	8	30	M6	30	33 900	38 000	21,1	75	0,86	0,84	4 900
								33 900	38 000	21,1				
								50 200	73 100	28,5				
70	60	6,5	M6	88	30	M6	30	52 200	77 800	29,4	75	0,86	0,84	4 900
								52 200	77 800	29,4				
								63 900	106 900	34,3				
70	60	6,5	M6	8	30	M6	30	36 600	35 600	13,3	90	0,85	0,82	4 900
								36 600	35 600	13,3				
								58 500	76 600	19,1				
70	60	6,5	M6	8	30	M6	30	49 900	59 400	16,9	90	0,85	0,82	4 900
								49 900	59 400	16,9				
								71 100	103 700	22,1				
70	60	6,5	M6	8	30	M6	30	47 600	49 900	10,5	100	0,72	0,62	4 900
								47 600	49 900	10,5				
								47 600	49 900	10,5				
70	60	6,5	M6	8	30	M6	30	61 100	73 600	12,7	100	0,72	0,62	4 900

Roller screw drives

Flanged nut, two-piece
Standard design



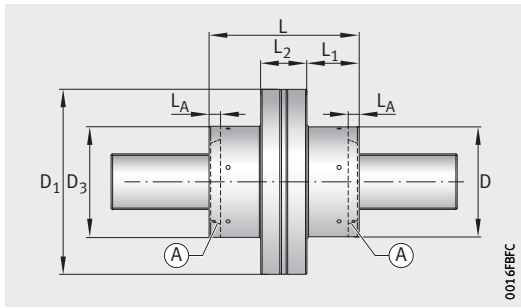
RGT-VTL

Dimension table (continued) · Dimensions in mm

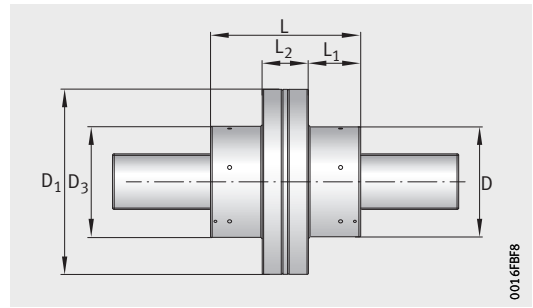
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊙	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
30	RGT-VTL-030.02	2	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
		2	5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	
	RGT-VTL-030.04	4	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
		4	5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	
	RGT-VTL-030.05	5	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
		5	5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	
	RGT-VTL-030.06	6	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
		6	5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

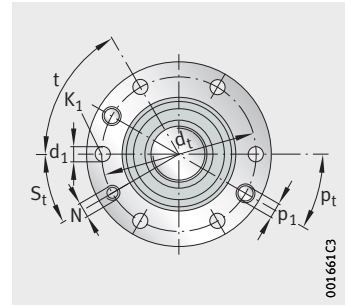


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings			Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N	c_K			η_1	η_2	
81	60	9	M8	8	30	M6	30	27 100	37 600	53,6	30	0,69	0,54	4 700	
								27 100	37 600	53,6					
								41 900	78 900	74,4					
81	60	9	M8	8	30	M6	30	43 900	85 300	77,1	30	0,69	0,54	4 700	
								43 900	85 300	77,1					
								56 700	128 100	93,6					
81	60	9	M8	8	30	M6	30	31 200	36 900	33,3	45	0,80	0,75	4 700	
								31 200	36 900	33,3					
								48 900	79 300	46,9					
81	60	9	M8	8	30	M6	30	50 800	84 400	48,3	45	0,80	0,75	4 700	
								50 800	84 400	48,3					
								65 700	127 100	58,7					
81	60	9	M8	8	30	M6	30	33 300	38 200	29,1	55	0,82	0,78	4 700	
								33 300	38 200	29,1					
								51 400	79 500	40,4					
81	60	9	M8	8	30	M6	30	53 900	85 900	41,9	55	0,82	0,78	4 700	
								53 900	85 900	41,9					
								69 800	129 400	51,0					
81	60	9	M8	8	30	M6	30	34 100	37 300	25,4	70	0,84	0,81	4 700	
								34 100	37 300	25,4					
								53 500	79 700	35,8					
81	60	9	M8	8	30	M6	30	55 000	83 500	36,6	70	0,84	0,81	4 700	
								55 000	83 500	36,6					
								71 900	127 500	44,8					

Roller screw drives

Flanged nut, two-piece
Standard design



RGT-VTL

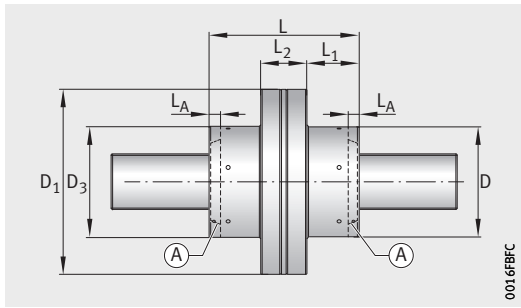
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Dimension table (continued) · Dimensions in mm

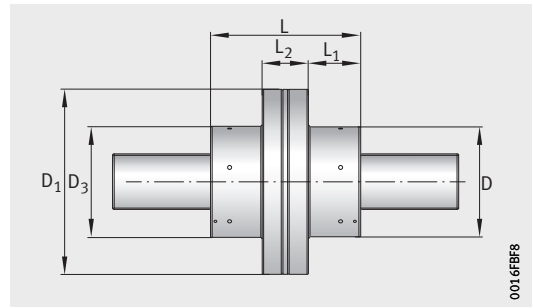
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃	L	L _A	L ₁	L ₂
30	RGT-VTL-030.08	8	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
			5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	
	RGT-VTL-030.10	10	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
			5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	
	RGT-VTL-030.20	20	5	A	–	1,7	62	97	62	55	–	14	27
				A	●	1,9				69	–	21	
				B	–	1,9				69	–	21	
			5	C	–	2,1	64	97	64	85	–	29	27
				C	●	2,1				85	–	29	
				D	–	2,1				85	–	29	
RGT-VTL-030.30	30	5	B	–	1,9	62	97	62	69	–	21	27	
			C	–	2,1				85	–	29		
		5	C	●	2,1	64	97	64	85	–	29	27	
			D	–	2,1				85	–	29		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

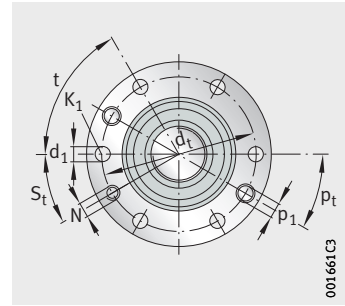


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
81	60	9	M8	8	30	M6	30	35 100	35 600	20,5	80	0,86	0,83	4 700
								35 100	35 600	20,5				
								55 800	77 600	29,1				
81	60	9	M8	8	30	M6	30	58 000	82 600	30,0	80	0,86	0,83	4 700
								58 000	82 600	30,0				
								75 500	125 100	36,6				
81	60	9	M8	8	30	M6	30	35 600	33 800	17,2	100	0,86	0,84	4 700
								35 600	33 800	17,2				
								56 800	74 200	24,5				
81	60	9	M8	8	30	M6	30	62 600	86 900	26,4	100	0,86	0,84	4 700
								62 600	86 900	26,4				
								79 700	126 800	31,7				
81	60	9	M8	8	30	M6	30	40 700	35 600	10,8	140	0,82	0,78	4 700
								40 700	35 600	10,8				
								68 300	82 300	16,0				
81	60	9	M8	8	30	M6	30	68 300	82 300	16,0	140	0,82	0,78	4 700
								68 300	82 300	16,0				
								87 900	121 800	19,4				
81	60	9	M8	8	30	M6	30	61 500	65 500	10,8	180	0,68	0,54	4 700
81	60	9	M8	8	30	M6	30	72 200	84 000	12,2	180	0,68	0,54	4 700
								72 200	84 000	12,2				
								93 000	123 400	14,8				

Roller screw drives

Flanged nut, two-piece
Standard design



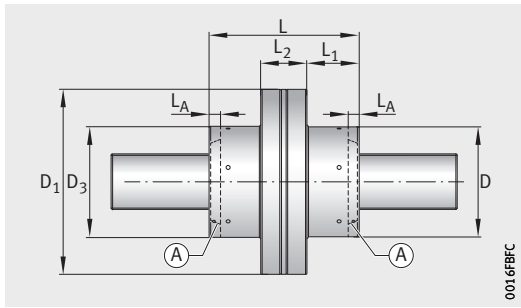
RGT-VTL

Dimension table (continued) · Dimensions in mm

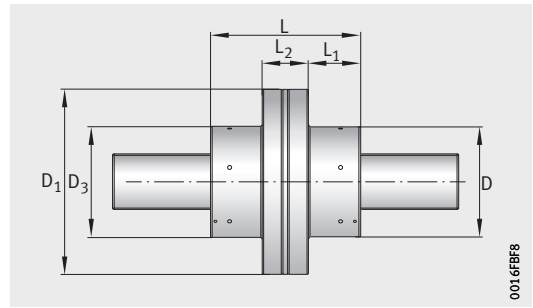
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
36	RGT-VTL-036.02	2	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTL-036.04	4	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTL-036.05	5	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTL-036.06	6	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTL-036.08	8	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTL-036.10	10	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTL-036.20	20	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTL-036.25	25	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	
	RGT-VTL-036.30	30	5	A	–	2,3	75	110	75	68	–	21,5	25
				A	●	2,6				82	–	28,5	
				B	–	2,6				82	–	28,5	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

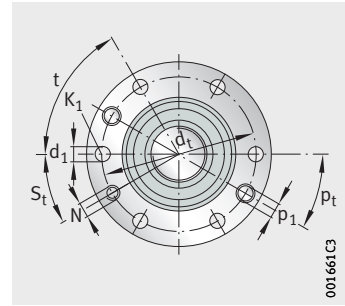


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
92	60	9	M8	8	30	M8×1	30	38 800	65 900	67,9	45	0,65	0,46	4 400
								38 800	65 900	67,9				
								54 100	116 600	87,7				
92	60	9	M8	8	30	M8×1	30	45 100	65 100	42,4	60	0,77	0,71	4 400
								45 100	65 100	42,4				
								63 600	117 100	55,3				
92	60	9	M8	8	30	M8×1	30	48 000	66 600	36,9	70	0,8	0,75	4 400
								48 000	66 600	36,9				
								67 000	117 300	47,6				
92	60	9	M8	8	30	M8×1	30	50 100	66 900	32,7	80	0,82	0,78	4 400
								50 100	66 900	32,7				
								68 800	114 500	41,7				
92	60	9	M8	8	30	M8×1	30	51 700	63 300	26,2	100	0,85	0,82	4 400
								51 700	63 300	26,2				
								73 500	115 000	34,4				
92	60	9	M8	8	30	M8×1	30	53 000	61 100	22,2	120	0,86	0,83	4 400
								53 000	61 100	22,2				
								75 500	110 900	29,1				
92	60	9	M8	8	30	M8×1	30	61 500	63 300	14,0	160	0,85	0,82	4 400
								61 500	63 300	14,0				
								83 800	105 600	17,7				
92	60	9	M8	8	30	M8×1	30	58 000	54 600	11,2	180	0,81	0,77	4 400
								58 000	54 600	11,2				
								87 300	106 700	15,3				
92	60	9	M8	8	30	M8×1	30	70 000	72 000	11,2	200	0,77	0,69	4 400
								70 000	72 000	11,2				
								82 100	93 100	12,6				

Roller screw drives

Flanged nut, two-piece
Standard design



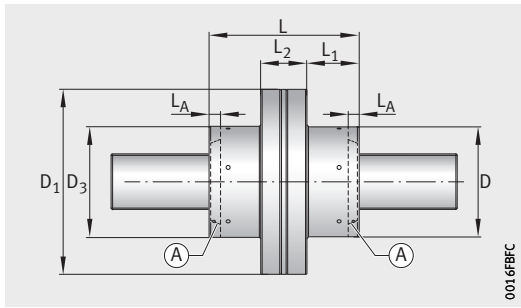
RGT-VTL

Dimension table (continued) · Dimensions in mm

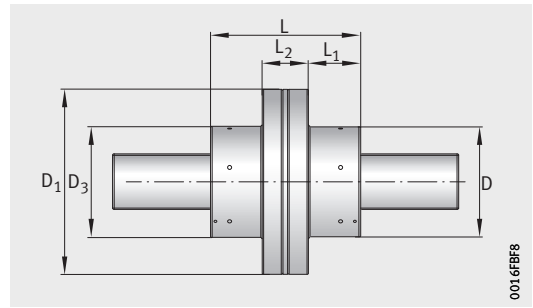
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions						
							D	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
39	RGT-VTL-039.02	2	5	A	–	3,8	80	124	80	72	–	19,5	33
				A	●	3,8				90	–	28,5	
				B	–	3,8				90	–	28,5	
		2	5	C	–	4,0	82	124	82	100	–	33,5	33
				C	●	4,0				100	–	33,5	
				D	–	4,0				100	–	33,5	
	RGT-VTL-039.04	4	5	A	–	3,8	80	124	80	72	–	19,5	33
				A	●	3,8				90	–	28,5	
				B	–	3,8				90	–	28,5	
		4	5	C	–	4,0	82	124	82	100	–	33,5	33
				C	●	4,0				100	–	33,5	
				D	–	4,0				100	–	33,5	
RGT-VTL-039.05	5	5	A	–	3,8	80	124	80	72	–	19,5	33	
			A	●	3,8				90	–	28,5		
			B	–	3,8				90	–	28,5		
	5	5	C	–	4,0	82	124	82	100	–	33,5	33	
			C	●	4,0				100	–	33,5		
			D	–	4,0				100	–	33,5		

Ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

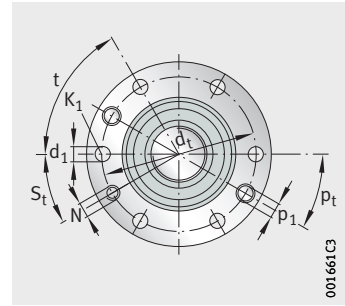


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
102	60	11	M10	8	30	M6	30	46 300	78 400	73,1	80	0,63	0,42	4 200
								46 300	78 400	73,1				
								68 000	150 000	97,9				
102	60	11	M10	8	30	M6	30	63 300	133 300	92,6	80	0,63	0,42	4 200
								63 300	133 300	92,6				
								79 700	193 100	110,3				
102	60	11	M10	8	30	M6	30	54 100	78 900	46,1	95	0,76	0,69	4 200
								54 100	78 900	46,1				
								78 900	148 800	61,3				
102	60	11	M10	8	30	M6	30	73 400	132 100	58,0	95	0,76	0,69	4 200
								73 400	132 100	58,0				
								93 100	193 600	69,5				
102	60	11	M10	8	30	M6	30	55 600	76 300	39,0	110	0,79	0,74	4 200
								55 600	76 300	39,0				
								82 400	147 300	52,6				
102	60	11	M10	8	30	M6	30	76 500	130 700	49,7	110	0,79	0,74	4 200
								76 500	130 700	49,7				
								96 700	190 300	59,4				

Roller screw drives

Flanged nut, two-piece
Standard design



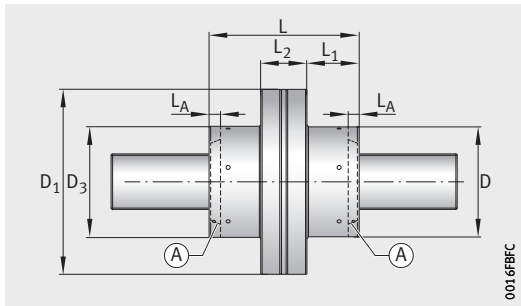
RGT-VTL

Dimension table (continued) · Dimensions in mm

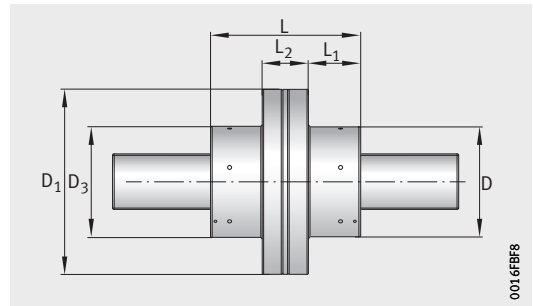
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	Ⓐ	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
39	RGT-VTL-039.10	10	5	A	–	3,8	80	124	80	72	–	19,5	33
				A	●	3,8				90	–	28,5	
				B	–	3,8				90	–	28,5	
		10	5	C	–	4,0	82	124	82	100	–	33,5	33
				C	●	4,0				100	–	33,5	
				D	–	4,0				100	–	33,5	
	RGT-VTL-039.20	20	5	A	–	3,8	80	124	80	72	–	19,5	33
				A	●	3,8				90	–	28,5	
				B	–	3,8				90	–	28,5	
		20	5	C	–	4,0	82	124	82	100	–	33,5	33
				C	●	4,0				100	–	33,5	
				D	–	4,0				100	–	33,5	
RGT-VTL-039.30	30	5	A	–	3,8	80	124	80	72	–	19,5	33	
			A	●	3,8				90	–	28,5		
			B	–	3,8				90	–	28,5		
	30	5	C	–	4,0	82	124	82	100	–	33,5	33	
			C	●	4,0				100	–	33,5		
			D	–	4,0				100	–	33,5		

Ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

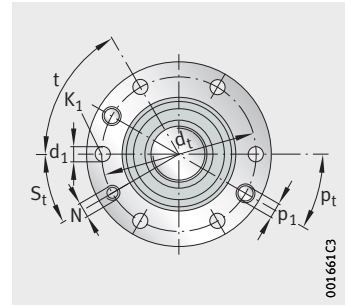


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
102	60	11	M10	8	30	M6	30	64 800	77 500	24,6	170	0,85	0,83	4 200
								64 800	77 500	24,6				
								96 000	148 600	33,1				
102	60	11	M10	8	30	M6	30	89 200	132 000	31,3	170	0,85	0,83	4 200
								89 200	132 000	31,3				
								112 600	191 500	37,4				
102	60	11	M10	8	30	M6	30	74 700	79 900	15,5	240	0,85	0,83	4 200
								74 700	79 900	15,5				
								106 800	142 600	20,3				
102	60	11	M10	8	30	M6	30	98 900	126 200	19,2	240	0,85	0,83	4 200
								98 900	126 200	19,2				
								130 000	193 900	23,6				
102	60	11	M10	8	30	M6	30	75 300	74 900	11,3	300	0,79	0,74	4 200
								75 300	74 900	11,3				
								113 900	144 900	15,5				
102	60	11	M10	8	30	M6	30	101 300	120 500	14,2	300	0,79	0,74	4 200
								101 300	120 500	14,2				
								126 400	170 200	16,8				

Roller screw drives

Flanged nut, two-piece
Standard design



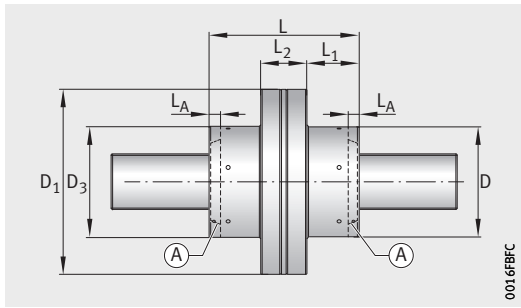
RGT-VTL

Dimension table (continued) · Dimensions in mm

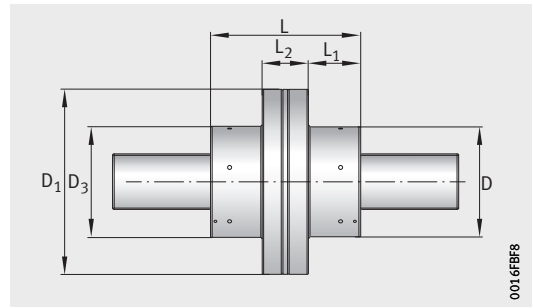
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
44	RGT-VTL-044.12	12	6	A	●	3,8	82	124	82	90	–	28,5	33
				B	–	3,8				90	–	28,5	
	RGT-VTL-044.24	24	6	A	●	3,8	82	124	82	90	–	28,5	33
				B	–	3,8				90	–	28,5	
	RGT-VTL-044.30	30	6	A	●	3,8	82	124	82	90	–	28,5	33
				B	–	3,8				90	–	28,5	
	RGT-VTL-044.36	36	6	A	●	3,8	82	124	82	90	–	28,5	33
				B	–	3,8				90	–	28,5	
	RGT-VTL-044.42	42	6	A	●	3,8	82	124	82	90	–	28,5	33
				B	–	3,8				90	–	28,5	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

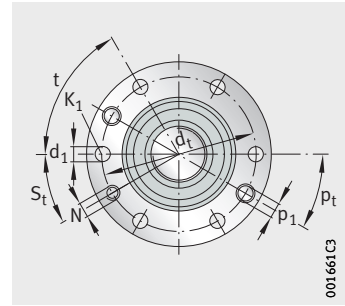


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
102	60	11	M10	8	30	M6	30	73 200	103 500	29,0	180	0,86	0,83	4 100
								90 800	146 400	34,1				
102	60	11	M10	8	30	M6	30	76 000	89 700	16,9	280	0,85	0,82	4 100
								100 600	140 000	20,9				
102	60	11	M10	8	30	M6	30	85 600	103 000	15,4	320	0,82	0,78	4 100
								106 700	145 600	18,2				
102	60	11	M10	8	30	M6	30	76 800	84 100	12,3	360	0,77	0,71	4 100
								103 300	133 700	15,4				
102	60	11	M10	8	30	M6	30	89 500	105 300	12,3	400	0,71	0,59	4 100
								105 100	134 800	13,9				

Roller screw drives

Flanged nut, two-piece
Standard design



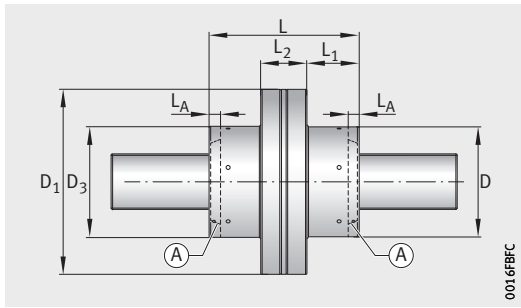
RGT-VTL

Dimension table (continued) - Dimensions in mm

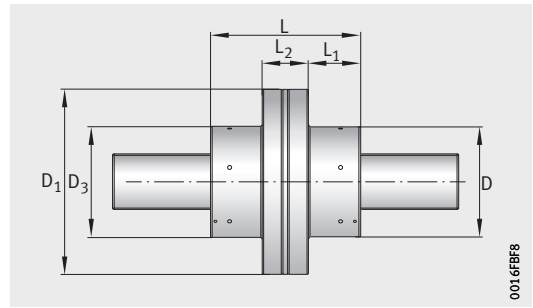
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L	L _A	L ₁	L ₂
48	RGT-VTL-048.05	5	5	A	-	5,5	96	150	96	95	-	29	37
				A	●	6,0				113	-	38	
				B	-	6,0				113	-	38	
		5	5	C	-	7,6	105	150	105	127	-	45	37
				C	●	7,6				127	-	45	
				D	-	7,6				127	-	45	
	RGT-VTL-048.10	10	5	A	-	5,5	96	150	96	95	-	29	37
				A	●	6,0				113	-	38	
				B	-	6,0				113	-	38	
		10	5	C	-	7,6	105	150	105	127	-	45	37
				C	●	7,6				127	-	45	
				D	-	7,6				127	-	45	
	RGT-VTL-048.20	20	5	A	-	5,5	96	150	96	95	-	29	37
				A	●	6,0				113	-	38	
				B	-	6,0				113	-	38	
20		5	C	-	7,6	105	150	105	127	-	45	37	
			C	●	7,6				127	-	45		
			D	-	7,6				127	-	45		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

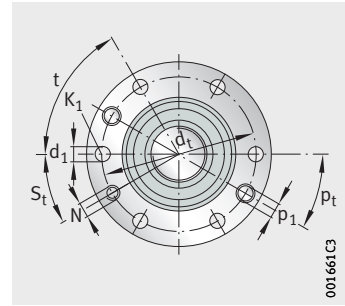


Without wiper

Mounting dimensions					Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N			stat. C_0 N	η_1		η_2
127	60	13	M12	8	30	M8×1	30	91 000	174 700	56,6	180	0,76	0,69	3 800
								91 000	174 700	56,6				
								117 600	267 300	69,0				
127	60	13	M12	8	30	M8×1	30	111 800	246 100	66,3	180	0,76	0,69	3 800
								111 800	246 100	66,3				
								137 500	343 600	77,9				
127	60	13	M12	8	30	M8×1	30	104 100	166 400	34,7	200	0,84	0,81	3 800
								104 100	166 400	34,7				
								135 600	258 200	42,6				
127	60	13	M12	8	30	M8×1	30	128 700	237 200	40,9	200	0,84	0,81	3 800
								128 700	237 200	40,9				
								159 300	334 000	48,3				
127	60	13	M12	8	30	M8×1	30	118 100	159 800	21,3	280	0,86	0,84	3 800
								118 100	159 800	21,3				
								159 300	261 100	26,9				
127	60	13	M12	8	30	M8×1	30	151 200	240 100	25,8	280	0,86	0,84	3 800
								151 200	240 100	25,8				
								183 200	325 900	29,9				

Roller screw drives

Flanged nut, two-piece
Standard design



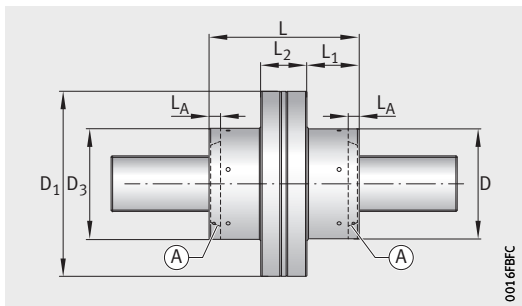
RGT-VTL

Dimension table (continued) · Dimensions in mm

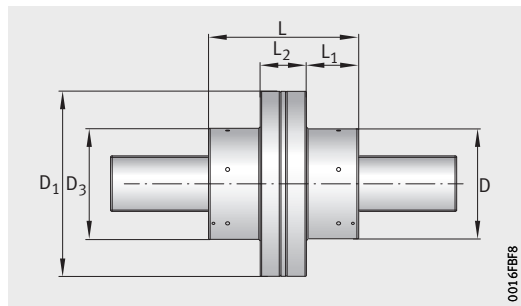
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions						
							D g6	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
48	RGT-VTL-048.30 ⁴⁾	30	5	A	–	5,5	96	150	96	95	–	29	37
				A	●	6,0				113	–	38	
				B	–	6,0				113	–	38	
		30	5	C	–	7,6	105	150	105	127	–	45	37
				C	●	7,6				127	–	45	
				D	–	7,6				127	–	45	
	RGT-VTL-048.40	40	5	A	–	5,5	96	150	96	95	–	29	37
				A	●	6,0				113	–	38	
				B	–	6,0				113	–	38	
		40	5	C	–	7,6	105	150	105	127	–	45	37
				C	●	7,6				127	–	45	
				D	–	7,6				127	–	45	

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.
- 4) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 374.



With wiper

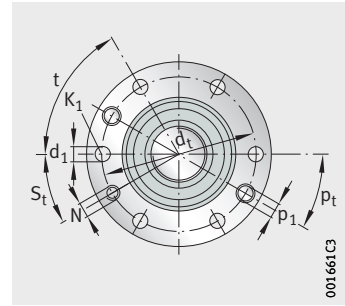


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings			Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min ⁻¹
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N	c_K N ^{2/3} /μm		η_1	η_2	
127	60	13	M12	8	30	M8×1	30	122 700	162 700	16,2	340	0,83	0,80	3 800
								122 700	162 700	16,2				
								161 400	253 500	20,1				
127	60	13	M12	8	30	M8×1	30	148 700	222 300	18,9	340	0,83	0,80	3 800
								148 700	222 300	18,9				
								186 300	317 700	22,5				
127	60	13	M12	8	30	M8×1	30	121 900	165 400	13,4	420	0,77	0,69	3 800
								121 900	165 400	13,4				
								156 100	245 800	16,2				
127	60	13	M12	8	30	M8×1	30	156 100	245 800	16,2	420	0,77	0,69	3 800
								156 100	245 800	16,2				
								189 200	331 300	18,9				

Roller screw drives

Flanged nut, two-piece
Standard design



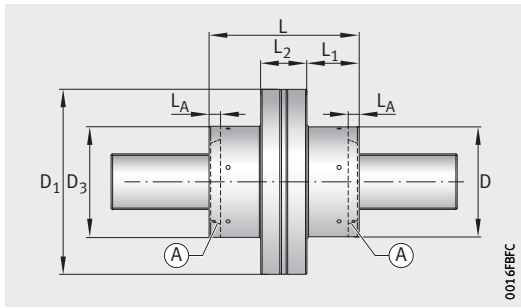
RGT-VTL

Dimension table (continued) · Dimensions in mm

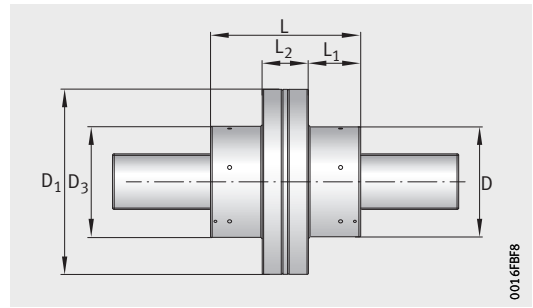
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
48	RGT-VTL-048.06	6	6	A	–	4,5	86	122	86	94	–	29,5	35
				A	●	5,0				104	–	34,5	
	RGT-VTL-048.12	12	6	A	–	4,5	86	122	86	94	–	29,5	35
				A	●	5,0				104	–	34,5	
	RGT-VTL-048.18	18	6	A	–	4,5	86	122	86	94	–	29,5	35
				A	●	5,0				104	–	34,5	
	RGT-VTL-048.30⁴⁾	30	6	A	–	4,5	86	122	86	94	–	29,5	35
				A	●	5,0				104	–	34,5	

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.
- 4) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 372.



With wiper

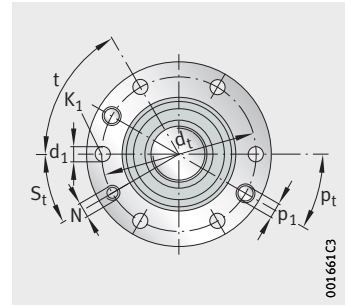


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
104	45	11	M10	8	22,5	M8×1	22,5	81 100	166 900	57,4	200	0,79	0,73	3 800
								81 100	166 900	57,4				
104	45	11	M10	8	22,5	M8×1	22,5	94 100	163 500	35,7	250	0,85	0,83	3 800
								94 100	163 500	35,7				
104	45	11	M10	8	22,5	M8×1	22,5	103 400	164 900	27,2	280	0,86	0,84	3 800
								103 400	164 900	27,2				
104	45	11	M10	8	22,5	M8×1	22,5	109 000	153 300	18,5	380	0,83	0,80	3 800
								109 000	153 300	18,5				

Roller screw drives

Flanged nut, two-piece
Standard design



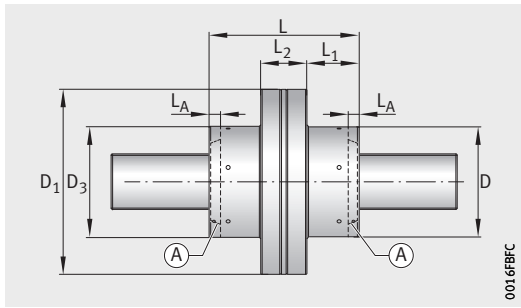
RGT-VTL

Dimension table (continued) - Dimensions in mm

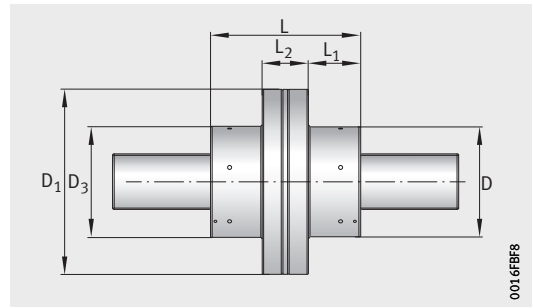
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
56	RGT-VTL-056.12	12	6	A	●	6,8	105	150	105	112	-	37,5	37
				B	-	6,8				112	-	37,5	
	RGT-VTL-056.24	24	6	A	●	6,8	105	150	105	112	-	37,5	37
				B	-	6,8				112	-	37,5	
	RGT-VTL-056.30	30	6	A	●	6,8	105	150	105	112	-	37,5	37
				B	-	6,8				112	-	37,5	
	RGT-VTL-056.36	36	6	A	●	6,8	105	150	105	112	-	37,5	37
				B	-	6,8				112	-	37,5	

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VTL.



With wiper

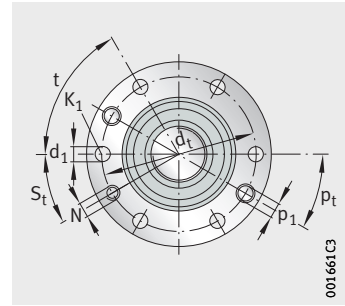


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
127	60	13	M12	8	30	M8×1	30	107 600	167 700	35,7	320	0,84	0,81	3 500
								143 900	267 400	44,5				
127	60	13	M12	8	30	M8×1	30	119 900	160 400	21,8	400	0,86	0,84	3 500
								166 700	270 500	28,0				
127	60	13	M12	8	30	M8×1	30	127 700	167 200	19,1	480	0,85	0,82	3 500
								176 500	277 700	24,4				
127	60	13	M12	8	30	M8×1	30	121 700	153 100	16,2	560	0,83	0,79	3 500
								166 600	250 700	20,5				

Roller screw drives

Flanged nut, two-piece
Standard design



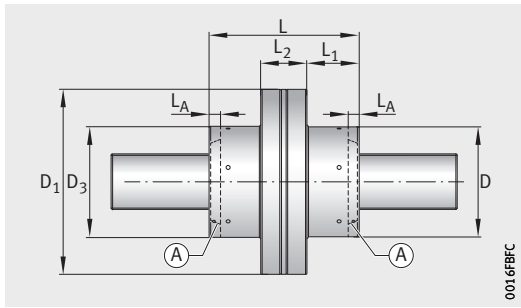
RGT-VTL

Dimension table (continued) · Dimensions in mm

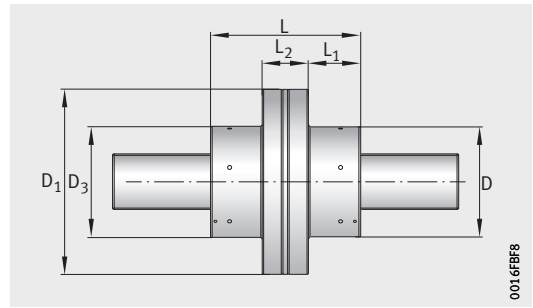
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	⊗	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
63	RGT-VTL-063.05	5	5	A	–	10,7	118	180	118	115	–	35,0	45
				A	●	11,6	118		118	133	–	44,0	
				C	–	13,0	122		122	152	–	53,5	
		5	5	C	●	13,0	122	180	122	152	–	53,5	45
				D	–	13,4	122		122	152	–	53,5	
	RGT-VTL-063.10 ³⁾	10	5	A	–	10,7	118	180	118	115	–	35,0	45
				A	●	11,6	118		118	133	–	44,0	
				C	–	13,0	122		122	152	–	53,5	
		10	5	C	●	13,0	122	180	122	152	–	53,5	45
				D	–	13,4	122		122	152	–	53,5	
	RGT-VTL-063.15	15	5	A	–	10,7	118	180	118	115	–	35,0	45
				A	●	11,6	118		118	133	–	44,0	
				C	–	13,0	122		122	152	–	53,5	
		15	5	C	●	13,0	122	180	122	152	–	53,5	45
D				–	13,4	122	122		152	–	53,5		
RGT-VTL-063.20	20	5	A	–	10,7	118	180	118	115	–	35,0	45	
			A	●	11,6	118		118	133	–	44,0		
			C	–	13,0	122		122	152	–	53,5		
	20	5	C	●	13,0	122	180	122	152	–	53,5	45	
			D	–	13,4	122		122	152	–	53,5		

⊗ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 382.



With wiper

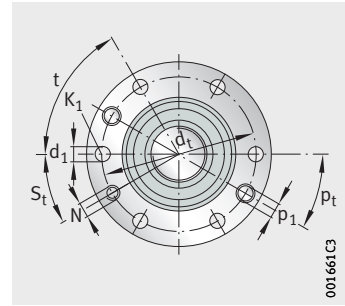


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
150	60	17,5	M16	10	30	M8×1	30	137 000	254 200	66,2	-	0,72	0,61	3 000
								137 000	254 200	66,2				
								174 000	378 000	79,4				
150	60	17,5	M16	10	30	M8×1	30	174 000	378 000	79,4	-	0,72	0,61	3 000
								209 800	510 200	91,5				
150	60	17,5	M16	10	30	M8×1	30	157 600	250 000	41,3	-	0,82	0,78	3 000
								157 600	250 000	41,3				
								203 100	380 100	50,0				
150	60	17,5	M16	10	30	M8×1	30	203 100	380 100	50,0	-	0,82	0,78	3 000
								242 800	505 100	57,2				
150	60	17,5	M16	10	30	M8×1	30	172 300	252 000	31,5	-	0,85	0,82	3 000
								172 300	252 000	31,5				
								217 100	368 600	37,5				
150	60	17,5	M16	10	30	M8×1	30	217 100	368 600	37,5	-	0,85	0,82	3 000
								267 800	514 100	44,0				
150	60	17,5	M16	10	30	M8×1	30	179 700	254 000	26,0	-	0,86	0,84	3 000
								179 700	254 000	26,0				
								221 300	357 200	30,4				
150	60	17,5	M16	10	30	M8×1	30	221 300	357 200	30,4	-	0,86	0,84	3 000
								271 700	494 800	35,6				

Roller screw drives

Flanged nut, two-piece
Standard design



RGT-VTL

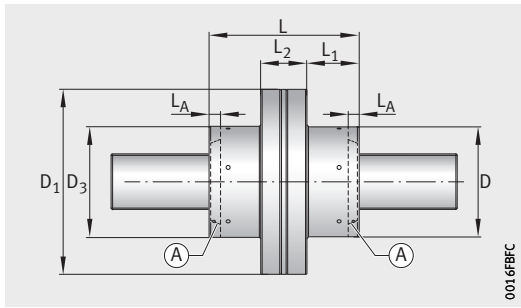
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions						
							D	D ₁	D ₃ ^{+0,5} ₀	L h12	L _A	L ₁	L ₂
63	RGT-VTL-063.30	30	5	A	–	10,7	118	180	118	115	–	35,0	45
				A	●	11,6	118		118	133	–	44,0	
				C	–	13,0	122		122	152	–	53,5	
		30	5	C	●	13,0	122	180	122	152	–	53,5	45
				D	–	13,4	122	122	152	–	53,5		
	RGT-VTL-063.40	40	5	A	–	10,7	118	180	118	115	–	35,0	45
				A	●	11,6	118		118	133	–	44,0	
				C	–	13,0	122		122	152	–	53,5	
		40	5	C	●	13,0	122	180	122	152	–	53,5	45
				D	–	13,4	122	122	152	–	53,5		
RGT-VTL-063.45	45	5	A	–	10,7	118	180	118	115	–	35,0	45	
			A	●	11,6	118		118	133	–	44,0		
			C	–	13,0	122		122	152	–	53,5		
	45	5	C	●	13,0	122	180	122	152	–	53,5	45	
			D	–	13,4	122	122	152	–	53,5			

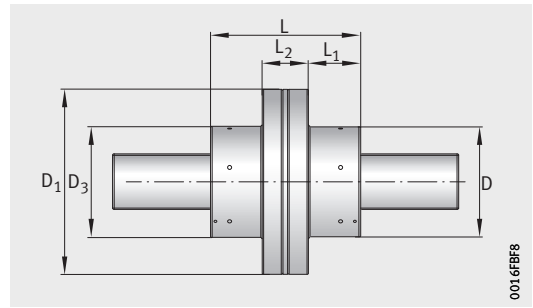
ⓐ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Two holes are located by means of dowels, to hold the nut halves in place.



With wiper

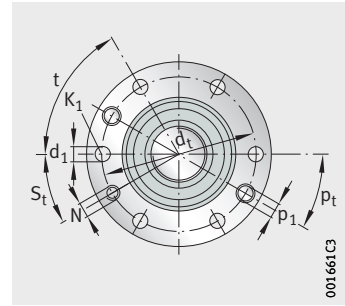


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
150	60	17,5	M16	10	30	M8×1	30	180 000	257 900	19,8	-	0,86	0,83	3 000
								180 000	257 900	19,8				
								226 800	374 400	23,6				
150	60	17,5	M16	10	30	M8×1	30	226 800	374 400	23,6	-	0,86	0,83	3 000
								272 200	498 600	27,1				
150	60	17,5	M16	10	30	M8×1	30	168 700	237 100	15,6	-	0,83	0,80	3 000
								168 700	237 100	15,6				
								210 400	338 400	18,5				
150	60	17,5	M16	10	30	M8×1	30	210 400	338 400	18,5	-	0,83	0,80	3 000
								271 100	502 200	22,4				
150	60	17,5	M16	10	30	M8×1	30	162 700	226 800	141,0	-	0,81	0,76	3 000
								162 700	226 800	141,0				
								209 600	340 200	17,1				
150	60	17,5	M16	10	30	M8×1	30	209 600	340 200	17,1	-	0,81	0,76	3 000
								255 100	462 100	19,8				

Roller screw drives

Flanged nut, two-piece
Standard design



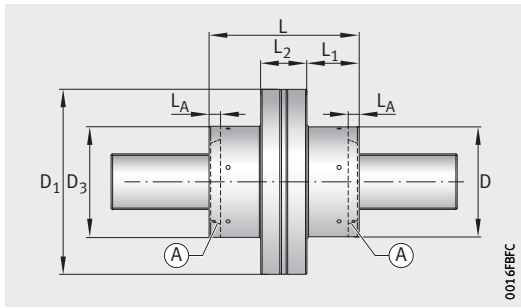
RGT-VTL

Dimension table (continued) · Dimensions in mm

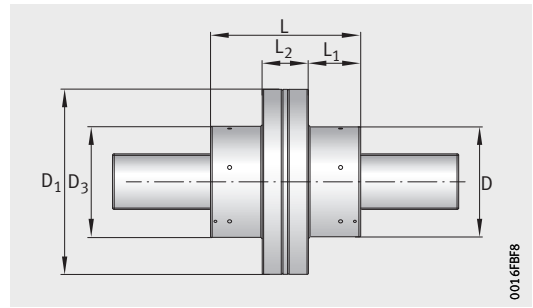
Nominal diameter d_0	Designation	Pitch P	Mobility level	Variant ¹⁾	ⓐ	Mass m ≈ kg	Dimensions						
							D	D_1	D_3 ^{+0,5} ₀	L h12	L_A	L_1	L_2
63	RGT-VTL-063.10 ³⁾	10	6	A	–	10,2	115	180	115	111	–	36,5	40
				A	●	11,6	120		120	129	–	39,0	
				B	–	11,6	120		120	129	–	39,0	
	RGT-VTL-063.12	12	6	A	–	10,2	115	180	115	111	–	36,5	40
				A	●	11,6	120		120	129	–	39,0	
				B	–	11,6	120		120	129	–	39,0	
	RGT-VTL-063.18	18	6	A	–	10,2	115	180	115	111	–	36,5	40
				A	●	11,6	120		120	129	–	39,0	
				B	–	11,6	120		120	129	–	39,0	
	RGT-VTL-063.24	24	6	A	–	10,2	115	180	115	111	–	36,5	40
				A	●	11,6	120		120	129	–	39,0	
				B	–	11,6	120		120	129	–	39,0	

ⓐ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) This size is available in mobility levels 5 and 6. Please add the mobility level to the ordering designation (suffix GG5 or GG6). Observe the dimension table, see page 378.



With wiper

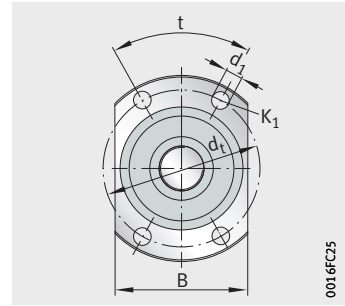


Without wiper

Mounting dimensions						Lubrication ²⁾		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}
d_t	t °	d_1	K_1	p_1	p_t °	N	S_t °	dyn. C N	stat. C_0 N			η_1	η_2	
150	30	17,5	M16	10	15	M8×1	15	145 300	271 600	50,3	-	0,82	0,78	3 000
								145 300	271 600	50,3				
								176 000	367 800	58,2				
150	30	17,5	M16	10	15	M8×1	15	152 000	274 300	44,7	-	0,83	0,80	3 000
								152 000	274 300	44,7				
								181 800	364 000	51,2				
150	30	17,5	M16	10	15	M8×1	15	161 300	263 700	33,4	-	0,86	0,83	3 000
								161 300	263 700	33,4				
								196 300	359 200	38,8				
150	30	17,5	M16	10	15	M8×1	15	171 300	265 500	27,6	-	0,86	0,84	3 000
								171 300	265 500	27,6				
								201 200	341 400	31,1				

Roller screw drives

Flanged nut, single-piece
Standard design



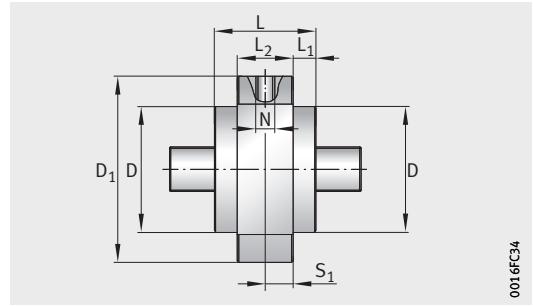
RGT-VTS

0016FC25

Dimension table · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Mass m ≈ kg	Dimensions							Mounting dimensions			
					D	D_1	L	L_A	L_1	L_2	B	d_t	t	d_1	K_1
5	RGT-VTS-005.01	1	3	0,2	24	40	31	–	8	15	27	32	60	4,3	M4
8	RGT-VTS-008.01	1	4	0,2	24	40	31	–	8	15	27	32	60	4,3	M4
	RGT-VTS-008.02	2	4												
	RGT-VTS-008.04	4	4												
	RGT-VTS-008.05	5	4												
12	RGT-VTS-012.01	1	4	0,3	42	63	31	–	8	15	45	53	60	6,4	M6
	RGT-VTS-012.02	2	5												
	RGT-VTS-012.04	4	5												
	RGT-VTS-012.05	5	5												
15	RGT-VTS-015.02	2	5	0,4	42	63	35	–	8	19	45	53	60	6,4	M6
	RGT-VTS-015.04	4	5												
	RGT-VTS-015.05	5	5												
20	RGT-VTS-020.02	2	5	0,6	42	63	55	–	12	31	45	53	60	6,4	M6
	RGT-VTS-020.04	4	5												
	RGT-VTS-020.05	5	5												
	RGT-VTS-020.06	6	5												

1) Overrunning frictional torque for preloaded nuts RGT-VTS.



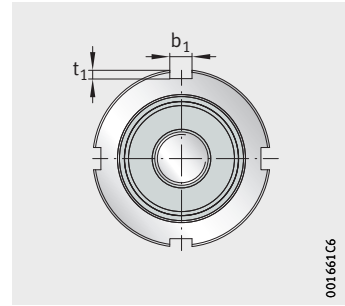
Without wiper

0016FC34

Lubrication			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ¹⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance
N	S_1	S_t °	dyn. C N	stat. C_0 N			η_1	η_2		
M6	7,5	30	4 700	9 600	35,80	3	0,85	0,82	6 000	0,01
M6	7,5	30	7 500	14 600	54,00	3	0,79	0,73	5 800	0,02
			8 700	14 700	34,00	4	0,85	0,83		
			10 000	14 900	21,40	5	0,85	0,83		
			10 300	14 700	18,20	6	0,83	0,80		
M6	7,5	30	11 300	15 300	51,90	3	0,73	0,62	5 600	0,02
			13 500	20 000	46,80	4	0,82	0,78		
			15 100	19 400	28,90	5	0,86	0,84		
			16 200	20 400	25,40	6	0,86	0,84		
M6	7,5	30	15 700	22 400	48,60	6	0,80	0,75	5 500	0,02
			17 700	21 800	30,00	7	0,86	0,83		
			19 000	22 900	26,40	9	0,86	0,84		
M8×1	7,5	30	32 300	66 400	78,30	18	0,76	0,69	5 200	0,02
			37 200	65 400	48,80	20	0,84	0,81		
			39 800	67 700	42,70	24	0,85	0,83		
			40 600	65 800	37,30	26	0,86	0,84		

Roller screw drives

Flanged nut with screw-in thread, single-piece
Standard design

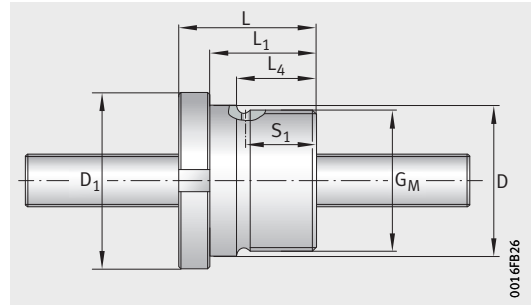


RGT-VTF, RGT-STF

Dimension table · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Mass m ≈ kg	Dimensions							
					D g6	D_1	G_M	L h12	L_1	L_4	t_1	b_1
8	RGT-VTF-008.01 RGT-STF-008.01	1	4	0,1	24	30	M22×1	31	24	18	2	4
	RGT-VTF-008.02 RGT-STF-008.02	2	4	0,1	24	30	M22×1	31	24	18	2	4
	RGT-VTF-008.04 RGT-STF-008.04	4	4	0,1	24	30	M22×1	31	24	18	2	4
	RGT-VTF-008.05 RGT-STF-008.05	5	4	0,1	24	30	M22×1	31	24	18	2	4
	RGT-VTF-012.01 RGT-STF-012.01	1	4	0,2	34	40	M32×1,5	31	24	18	2	5
12	RGT-VTF-012.02 RGT-STF-012.02	2	5	0,2	30	36	M28×1,5	31	24	18	2	5
	RGT-VTF-012.04 RGT-STF-012.04	4	5	0,2	30	36	M28×1,5	31	24	18	2	5
	RGT-VTF-012.05 RGT-STF-012.05	5	5	0,2	30	36	M28×1,5	31	24	18	2	5
	RGT-VTF-012.10 RGT-STF-012.10	10	5	0,2	30	36	M28×1,5	31	24	18	2	5

- 1) Overrunning frictional torque for preloaded nuts RGT-VTF.
2) Maximum axial clearance for non-preloaded nuts RGT-STF.

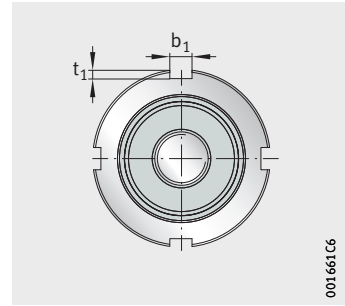


Without wiper

Lubrication		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ¹⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_s	S_1	dyn. C N	stat. C ₀ N			η_1	η_2		
2,5	16,25	7 500	14 600	54,0	3	0,82	0,78	5 800	0,02
2,5	16,25	8 700	14 700	34,0	4	0,83	0,79	5 800	0,02
2,5	16,25	10 000	14 900	21,4	5	0,89	0,87	5 800	0,02
2,5	16,25	10 300	14 700	18,2	6	0,89	0,88	5 800	0,02
2,5	16,25	11 300	15 300	46,8	3	0,79	0,74	5 600	0,02
2,5	16,25	13 500	20 000	28,9	4	0,79	0,74	5 600	0,02
2,5	16,25	15 100	19 400	25,4	5	0,88	0,87	5 600	0,02
2,5	16,25	16 200	20 400	16,0	6	0,88	0,87	5 600	0,02
2,5	16,25	18 200	20 900	54,0	8	0,90	0,89	5 600	0,02

Roller screw drives

Flanged nut with screw-in thread, single-piece
Standard design



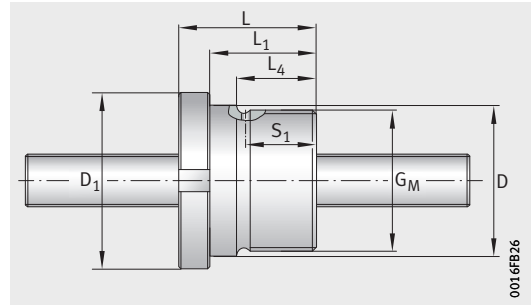
RGT-VTF, RGT-STF

Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	Mass m ≈ kg	Dimensions							
					D g6	D_1	G_M	L h12	L_1	L_4	t_1	b_1
15	RGT-VTF-015.02 RGT-STF-015.02	2	5	0,3	38	46	M36×1,5	35	27	20	2	5
	RGT-VTF-015.04 RGT-STF-015.04	4	5	0,3	38	46	M36×1,5	35	27	20	2	5
	RGT-VTF-015.05 RGT-STF-015.05	5	5	0,3	38	46	M36×1,5	35	27	20	2	5
	RGT-VTF-015.08 RGT-STF-015.08	8	5	0,3	38	46	M36×1,5	35	27	20	2	5
	RGT-VTF-015.10 RGT-STF-015.10	10	5	0,3	38	46	M36×1,5	35	27	20	2	5
20	RGT-VTF-020.02 RGT-STF-020.02	2	5	0,4	46	56	M45×1,5	55	47	30	2,5	6
	RGT-VTF-020.04 RGT-STF-020.04	4	5	0,4	46	56	M45×1,5	55	47	30	2,5	6
	RGT-VTF-020.05 RGT-STF-020.05	5	5	0,4	46	56	M45×1,5	55	47	30	2,5	6
	RGT-VTF-020.06 RGT-STF-020.06	6	5	0,4	46	56	M45×1,5	55	47	30	2,5	6
	RGT-VTF-020.10 RGT-STF-020.10	10	5	0,4	46	56	M45×1,5	55	47	30	2,5	6
	RGT-VTF-020.12 RGT-STF-020.12	12	5	0,4	46	56	M45×1,5	55	47	30	2,5	6

1) Overrunning frictional torque for preloaded nuts RGT-VTF.

2) Maximum axial clearance for non-preloaded nuts RGT-STF.

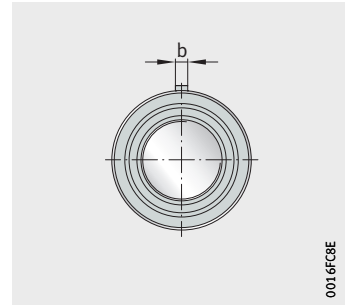


Without wiper

Lubrication		Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ¹⁾ M_V Ncm	Theoretical efficiency		Limiting speed n_G min^{-1}	Axial clearance ²⁾
d_s	S_1	dyn. C N	stat. C ₀ N			η_1	η_2		
2,5	16,25	15 700	22 400	48,6	6	0,80	0,75	5 500	0,02
2,5	16,25	17 700	21 800	30,0	7	0,86	0,83	5 500	0,02
2,5	16,25	19 000	22 900	26,4	9	0,86	0,84	5 500	0,02
2,5	16,25	19 200	20 500	18,2	12	0,85	0,82	5 500	0,02
2,5	16,25	18 900	19 000	15,0	14	0,82	0,78	5 500	0,02
3,0	27,50	32 300	66 400	78,3	18	0,76	0,69	5 200	0,02
3,0	27,50	37 200	65 400	48,8	20	0,84	0,81	5 200	0,02
3,0	27,50	39 800	67 700	42,7	24	0,85	0,83	5 200	0,02
3,0	27,50	40 600	65 800	37,3	26	0,86	0,84	5 200	0,02
3,0	27,50	44 400	65 200	26,2	35	0,85	0,83	5 200	0,04
3,0	27,50	46 500	67 000	23,5	40	0,83	0,80	5 200	0,04

Roller screw drives with roller return

Cylindrical nut, single-piece
Standard design



RGT-VRE, RGT-SRE

0016FC8E

Dimension table · Dimensions in mm

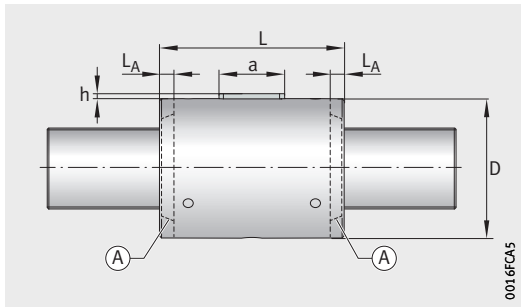
Nominal diameter d_0	Designation	Pitch P	Mobility level	⊗ ¹⁾	Mass m ≈ kg	Dimensions			Mounting dimensions		
						D g6	L h12	L_A	a	b h9	h
8	RGT-VRE-008.005 RGT-SRE-008.005	0,5	1	– ●	0,1 0,1	20	31 40	– –	12	2	0,8
	RGT-VRE-008.01 RGT-SRE-008.01	1	1	– ●	0,1 0,1		31 40	– –			
10	RGT-VRE-010.005 RGT-SRE-010.005	0,5	1	– ●	0,1 0,1	22	31 40	– –	12	2	0,8
	RGT-VRE-010.01 RGT-SRE-010.01	1	1	– ●	0,1 0,1		31 40	– –			
	RGT-VRE-010.02 RGT-SRE-010.02	2	2	– ●	0,1 0,1	22	31 40	– –	12	2	0,8
12	RGT-VRE-012.005 RGT-SRE-012.005	0,5	1	– ●	0,1 0,1	24	31 40	– –	12	2	0,8
	RGT-VRE-012.01 RGT-SRE-012.01	1	1	– ●	0,1 0,1		24	31 40			
	RGT-VRE-012.02 RGT-SRE-012.02	2	2	– ●	0,1 0,1	24	31 40	– –	12	2	0,8
16	RGT-VRE-016.005 RGT-SRE-016.005	0,5	1	– ●	0,1 0,2	29	31 40	– –	12	3	1,2
	RGT-VRE-016.01 RGT-SRE-016.01	1	1	– ●	0,1 0,2		29	31 40			
	RGT-VRE-016.02 RGT-SRE-016.02	2	2	– ●	0,1 0,2	29	31 40	– –	12	3	1,2
20	RGT-VRE-020.005 RGT-SRE-020.005	0,5	1	– ●	0,2 0,3	34	37 45	– –	16	3	1,2
	RGT-VRE-020.01 RGT-SRE-020.01	1	1	– ●	0,2 0,3		34	37 45			
	RGT-VRE-020.02 RGT-SRE-020.02	2	2	– ●	0,2 0,3	34	37 45	– –	16	3	1,2

⊗ Wipers: ● with wiper.

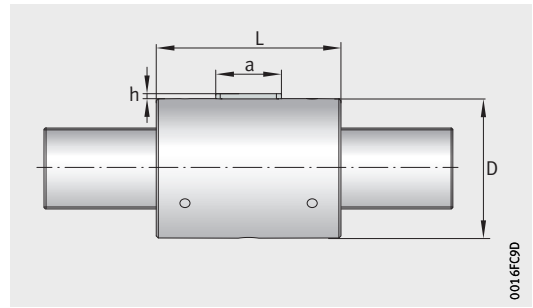
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VRE.

3) Maximum axial clearance for non-preloaded nuts RGT-SRE.



With wiper, sizes up to 63 mm

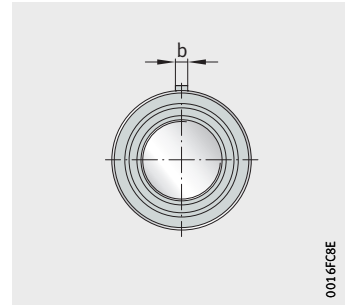


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency η_1	Limiting speed n_G min^{-1}	Axial clearance ³⁾
	dyn. C N	stat. C ₀ N					
2×2×12	8 100	13 500	30,7	6	0,67	3 750	0,02
2×2×12	9 400	12 300	18,4	6	0,79	3 750	0,02
2×2×12	9 700	16 800	34,8	8	0,62	3 000	0,02
2×2×12	11 300	15 300	20,9	8	0,76	3 000	0,02
2×2×12	11 300	15 300	20,9	8	0,83	3 000	0,02
2×2×12	11 100	20 100	34,8	10	0,62	2 500	0,02
2×2×12	12 900	18 200	23,1	10	0,76	2 500	0,02
2×2×12	12 900	18 200	23,1	10	0,83	2 500	0,02
3×3×12	13 400	26 700	45,6	15	0,51	1 875	0,02
3×3×12	15 500	24 200	27,4	15	0,67	1 875	0,02
3×3×12	15 500	24 200	27,4	15	0,78	1 875	0,02
3×3×16	18 100	45 500	59,9	20	0,46	1 500	0,02
3×3×16	21 500	42 600	36,5	20	0,62	1 500	0,02
3×3×16	21 500	42 600	36,5	20	0,75	1 500	0,02

Roller screw drives with roller return

Cylindrical nut, single-piece
Standard design



RGT-VRE, RGT-SRE

0016FC8E

Dimension table (continued) · Dimensions in mm

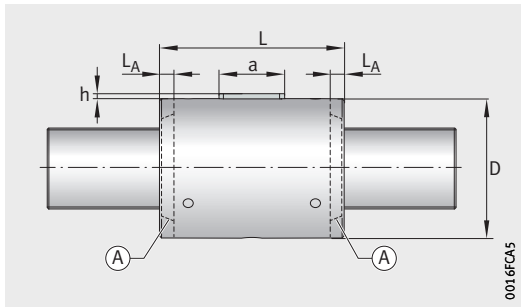
Nominal diameter d_0	Designation	Pitch P	Mobility level	①)	Mass m ≈ kg	Dimensions			Mounting dimensions		
						D g6	L h12	L_A	a	b h9	h
25	RGT-VRE-025.01 RGT-SRE-025.01	1	1	– ●	0,3 0,4	42	44 54	– –	20	4	1,5
	RGT-VRE-025.02 RGT-SRE-025.02	2	2	– ●	0,3 0,4		44 54	– –			
32	RGT-VRE-032.01 RGT-SRE-032.01	1	1	– ●	0,6 0,8	54	57 67	– –	25	4	1,5
	RGT-VRE-032.02 RGT-SRE-032.02	2	2	– ●	0,6 0,8		57 67	– –			
40	RGT-VRE-040.01 RGT-SRE-040.01	1	1	– ●	1,1 1,3	68	63 75	– –	32	5	2,0
	RGT-VRE-040.02 RGT-SRE-040.02	2	2	– ●	1,1 1,3		63 75	– –			
50	RGT-VRE-050.01 RGT-SRE-050.01	1	1	– ●	1,8 2,2	82	85 101	– –	32	6	2,5
	RGT-VRE-050.02 RGT-SRE-050.02	2	2	– ●	1,8 2,2		85 101	– –			
	RGT-VRE-050.03 RGT-SRE-050.03	3	2	– ●	1,9 2,2	82	85 101	– –	32	6	2,5
	RGT-VRE-050.04 RGT-SRE-050.04	4	2	– ●	1,9 2,2		85 101	– –			
63	RGT-VRE-063.02 RGT-SRE-063.02	2	1	– ●	3,9 4,5	103	104 120	– –	40	6	2,5
	RGT-VRE-063.04 RGT-SRE-063.04	4	2	– ●	3,9 4,5		104 120	– –			
80	RGT-VRE-080.04 RGT-SRE-080.04	4	1	– ●	12,5 13,0	141	175 197	7 7	63	8	3,0
100	RGT-VRE-100.05 RGT-SRE-100.05	5	1	– ●	26,0 28,0	175	205 237	10 10	80	10	3,0
125	RGT-VRE-125.05 RGT-SRE-125.05	5	1	– ●	46,0 49,0	220	250 282	10 10	100	12	3,0

① Wipers: ● with wiper.

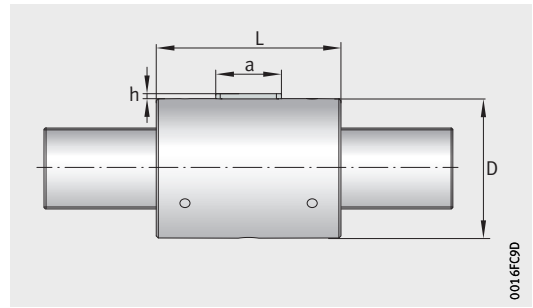
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VRE.

3) Maximum axial clearance for non-preloaded nuts RGT-SRE.



With wiper, sizes up to 63 mm

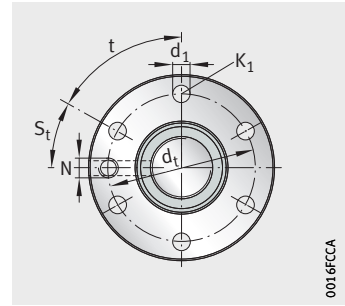


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency η_1	Limiting speed n_G min^{-1}	Axial clearance ³⁾
	dyn. C N	stat. C_0 N					
4×4×20	31 400	73 000	47,1	30	0,57	1 200	0,02
4×4×20	31 400	73 000	47,1	30	0,72	1 200	0,02
4×4×25	47 700	127 600	59,7	50	0,51	625	0,02
4×4×25	47 700	127 600	59,7	50	0,67	625	0,02
5×5×32	62 500	177 300	67,8	70	0,46	500	0,02
5×5×32	62 500	177 300	67,8	70	0,62	500	0,04
6×6×32	104 200	351 700	91,3	90	0,41	400	0,02
6×6×32	104 200	351 700	91,3	90	0,57	400	0,04
6×6×32	125 300	367 700	70,6	90	0,66	400	0,04
6×6×32	132 600	349 300	56,8	90	0,72	400	0,04
6×6×40	172 700	482 500	64,9	120	0,52	320	0,04
6×6×40	172 700	482 500	64,9	120	0,67	320	0,04
8×7×63	346 700	1 136 500	63,1	–	0,62	250	0,07
10×8×80	430 900	1 302 300	54,8	–	0,62	200	0,07
12×8×100	797 500	3 404 500	87,3	–	0,57	160	0,07

Roller screw drives with roller return

Flanged nut, single-piece
Standard design



RGT-VRM, RGT-SRM

0016FCCA

Dimension table · Dimensions in mm

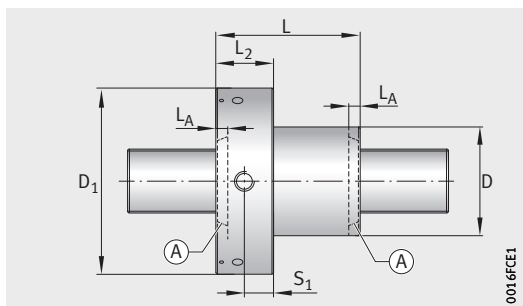
Nominal diameter d_0	Designation	Pitch P	Mobility level	①)	Mass m ≈ kg	Dimensions					Mounting dimensions		
						D	D_1	L	L_A	L_2	d_t	t	d_1
8	RGT-VRM-008.005 RGT-SRM-008.005	0,5	1	–	0,2	22	43	31	–	16	33	60	4,5
	●			0,2	40			–					
	RGT-VRM-008.01 RGT-SRM-008.01	1	1	–	0,2	22	43	31	–	16	33	60	4,5
	●			0,2	40			–					
10	RGT-VRM-010.005 RGT-SRM-010.005	0,5	1	–	0,2	22	43	31	–	16	33	60	4,5
	●			0,2	40			–					
	RGT-VRM-010.01 RGT-SRM-010.01	1	1	–	0,2	22	43	31	–	16	33	60	4,5
	●			0,2	40			–					
RGT-VRM-010.02 RGT-SRM-010.02	2	2	–	0,2	22	43	31	–	16	33	60	4,5	
●			0,2	40			–						
12	RGT-VRM-012.005 RGT-SRM-012.005	0,5	1	–	0,2	25	46	31	–	16	36	60	4,5
	●			0,2	40			–					
	RGT-VRM-012.01 RGT-SRM-012.01	1	1	–	0,2	25	46	31	–	16	36	60	4,5
	●			0,2	40			–					
RGT-VRM-012.02 RGT-SRM-012.02	2	2	–	0,2	25	46	31	–	16	36	60	4,5	
●			0,2	40			–						
16	RGT-VRM-016.005 RGT-SRM-016.005	0,5	1	–	0,2	30	51	31	–	16	41	60	5,5
	●			0,3	40			–					
	RGT-VRM-016.01 RGT-SRM-016.01	1	1	–	0,2	30	51	31	–	16	41	60	5,5
	●			0,3	40			–					
RGT-VRM-016.02 RGT-SRM-016.02	2	2	–	0,2	30	51	31	–	16	41	60	5,5	
●			0,3	40			–						
20	RGT-VRM-020.005 RGT-SRM-020.005	0,5	1	–	0,3	35	58	37	–	18	46	60	5,5
	●			0,4	45			–					
	RGT-VRM-020.01 RGT-SRM-020.01	1	1	–	0,3	35	58	37	–	18	46	60	5,5
	●			0,4	45			–					
RGT-VRM-020.02 RGT-SRM-020.02	2	2	–	0,3	35	58	37	–	18	46	60	5,5	
●			0,4	45			–						

① Wipers: ● with wiper.

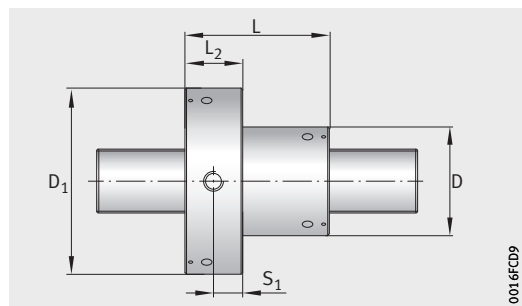
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VRM.

3) Maximum axial clearance for non-preloaded nuts RGT-SRM.



With wiper, sizes up to 63 mm

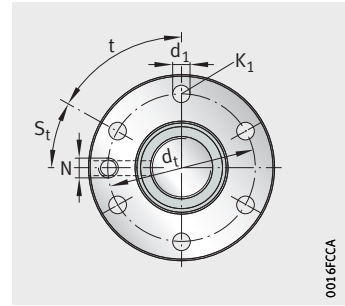


Without wiper

	Lubrication			Basic load ratings		Spring characteristic number c_{κ} $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency η_1	Limiting speed n_G min^{-1}	Axial clearance ³⁾
	K_1	N	S_1	S_t °	dyn. C N					
M4	M6	5	30	8 100	13 500	30,7	6	0,67	3 750	0,02
M4	M6	5	30	9 400	12 300	18,4	6	0,79	3 750	0,02
M4	M6	5	30	9 700	16 800	34,8	8	0,62	3 000	0,02
M4	M6	5	30	11 300	15 300	20,9	8	0,76	3 000	0,02
M4	M6	5	30	11 300	15 300	20,9	8	0,83	3 000	0,02
M4	M6	5	30	11 100	20 100	38,6	10	0,58	2 500	0,02
M4	M6	5	30	12 900	18 200	23,1	10	0,73	2 500	0,02
M4	M6	5	30	12 900	18 200	23,1	10	0,82	2 500	0,02
M5	M6	5	30	13 400	26 700	45,6	15	0,51	1 875	0,02
M5	M6	5	30	15 500	24 200	27,4	15	0,67	1 875	0,02
M5	M6	5	30	15 500	24 200	27,4	15	0,78	1 875	0,02
M5	M6	6	30	18 100	45 500	59,9	20	0,46	1 500	0,02
M5	M6	6	30	21 500	42 600	36,5	20	0,62	1 500	0,02
M5	M6	6	30	21 500	42 600	36,5	20	0,75	1 500	0,02

Roller screw drives with roller return

Flanged nut, single-piece
Standard design



RGT-VRM, RGT-SRM

0016FCCA

Dimension table (continued) - Dimensions in mm

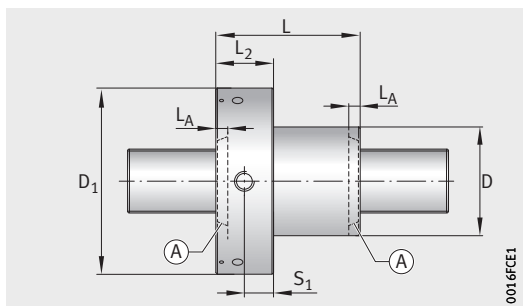
Nominal diameter d_0	Designation	Pitch P	Mobility level	ⓐ ¹⁾	Mass m ≈ kg	Dimensions					Mounting dimensions		
						D	D ₁	L	L _A	L ₂	d _t	t	d ₁
25	RGT-VRM-025.01 RGT-SRM-025.01	1	1	—	0,6	45	68	44	—	18	56	60	6,6
	●			0,7	54			—					
	RGT-VRM-025.02 RGT-SRM-025.02	2	2	—	0,6	45	68	44	—	18	56	60	6,6
	●			0,7	54			—					
32	RGT-VRM-032.01 RGT-SRM-032.01	1	1	—	1,0	56	84	57	—	20	70	60	6,6
	●			1,2	67			—					
	RGT-VRM-032.02 RGT-SRM-032.02	2	2	—	1,0	56	84	57	—	20	70	60	6,6
	●			1,2	67			—					
40	RGT-VRM-040.01 RGT-SRM-040.01	1	1	—	1,9	68	102	63	—	27	85	60	9
	●			2,1	75			—					
	RGT-VRM-040.02 RGT-SRM-040.02	2	2	—	2,0	68	102	63	—	27	85	60	9
	●			2,2	75			—					
50	RGT-VRM-050.01 RGT-SRM-050.01	1	1	—	3,4	82	124	85	—	33	102	60	11
	●			3,8	101			—					
	RGT-VRM-050.02 RGT-SRM-050.02	2	2	—	3,4	82	124	85	—	33	102	60	11
	●			3,8	101			—					
	RGT-VRM-050.03 RGT-SRM-050.03	3	2	—	3,5	82	124	85	—	33	102	60	11
	●			3,8	101			—					
	RGT-VRM-050.04 RGT-SRM-050.04	4	2	—	3,5	82	124	85	—	33	102	60	11
	●			3,8	101			—					
63	RGT-VRM-063.02 RGT-SRM-063.02	2	1	—	5,9	105	150	104	—	33	127	60	14
	●			6,5	120			—					
	RGT-VRM-063.04 RGT-SRM-063.04	4	2	—	5,9	105	150	104	—	33	127	60	14
	●			6,5	120			—					
80	RGT-VRM-080.04 RGT-SRM-080.04	4	1	—	17,6	140	200	175	7	45	170	22,5	18
	●			18,0	197			7					
100	RGT-VRM-100.05 RGT-SRM-100.05	5	1	—	31,5	180	240	205	10	50	210	15	18
	●			33,0	237			10					
125	RGT-VRM-125.05 RGT-SRM-125.05	5	1	—	60,0	220	310	250	10	55	270	15	20
	●			63,0	282			10					

ⓐ Wipers: ● with wiper.

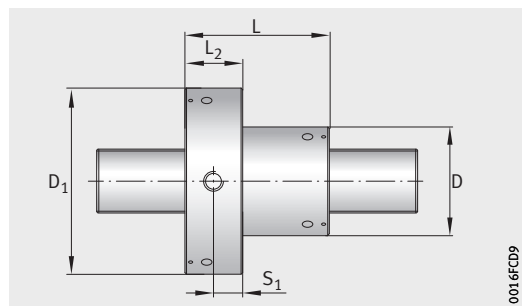
¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Overrunning frictional torque for preloaded nuts RGT-VRM.

³⁾ Maximum axial clearance for non-preloaded nuts RGT-SRM.



With wiper, sizes up to 63 mm

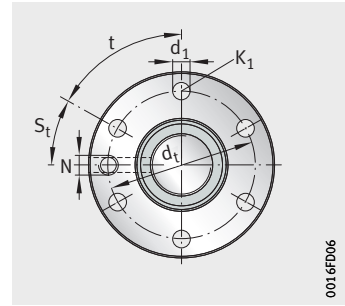


Without wiper

	Lubrication			Basic load ratings		Spring characteristic number c_{κ} $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency η_1	Limiting speed n_G min^{-1}	Axial clearance ³⁾
	K_1	N	S_1	S_t °	dyn. C N					
M6	M6	6	30	31 400	73 000	47,1	30	0,57	1 200	0,02
M6	M6	6	30	31 400	73 000	47,1	30	0,72	1 200	0,02
M6	M6	6	30	47 700	127 600	59,7	50	0,51	625	0,02
M6	M6	6	30	47 700	127 600	59,7	50	0,67	625	0,02
M8	M6	6	30	62 500	177 300	67,8	70	0,46	500	0,02
M8	M6	6	30	62 500	177 300	67,8	70	0,62	500	0,04
M10	M8×1	7	30	104 200	351 700	91,3	90	0,41	400	0,02
M10	M8×1	7	30	104 200	351 700	91,3	90	0,57	400	0,04
M10	M8×1	7	30	125 300	367 700	70,6	90	0,66	400	0,04
M10	M8×1	7	30	132 600	349 300	56,8	90	0,72	400	0,04
M12	M8×1	7	30	172 700	482 500	64,9	120	0,52	320	0,04
M12	M8×1	7	30	172 700	482 500	64,9	120	0,67	320	0,04
M16	M8×1	7	11,25	346 700	1 136 500	63,1	–	0,62	250	0,07
M16	M8×1	7	7,5	430 900	1 302 300	54,8	–	0,62	200	0,07
M18	M8×1	7	7,5	797 500	3 404 500	87,3	–	0,57	160	0,07

Roller screw drives with roller return

Flanged nut, single-piece
Standard design



RGT-VRK, RGT-SRK

0016FD06

Dimension table · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	①)	Mass m ≈ kg	Dimensions							Mounting dimensions		
						D	D ₁	D ₃	L	L _A	L ₁	L ₂	d _t	t	d ₁
8	RGT-VRK-008.005 RGT-SRK-008.005	0,5	1	-	0,2	22	43	22	31	-	7,5	16	33	60	4,5
				●	0,2				40	-	12,0				
	RGT-VRK-008.01 RGT-SRK-008.01	1	1	-	0,2	22	43	22	31	-	7,5	16	33	60	4,5
				●	0,2				40	-	12,0				
10	RGT-VRK-010.005 RGT-SRK-010.005	0,5	1	-	0,2	22	43	22	31	-	7,5	16	33	60	4,5
				●	0,2				40	-	12,0				
	RGT-VRK-010.01 RGT-SRK-010.01	1	1	-	0,2	22	43	22	31	-	7,5	16	33	60	4,5
				●	0,2				40	-	12,0				
RGT-VRK-010.02 RGT-SRK-010.02	2	2	-	0,2	22	43	22	31	-	7,5	16	33	60	4,5	
			●	0,2				40	-	12,0					
12	RGT-VRK-012.005 RGT-SRK-012.005	0,5	1	-	0,2	25	46	25	31	-	7,5	16	36	60	4,5
				●	0,2				40	-	12,0				
	RGT-VRK-012.01 RGT-SRK-012.01	1	1	-	0,2	25	46	25	31	-	7,5	16	36	60	4,5
				●	0,2				40	-	12,0				
RGT-VRK-012.02 RGT-SRK-012.02	2	2	-	0,2	25	46	25	31	-	7,5	16	36	60	4,5	
			●	0,2				40	-	12,0					
16	RGT-VRK-016.005 RGT-SRK-016.005	0,5	1	-	0,2	30	51	30	31	-	7,5	16	41	60	5,5
				●	0,3				40	-	12,0				
	RGT-VRK-016.01 RGT-SRK-016.01	1	1	-	0,2	30	51	30	31	-	7,5	16	41	60	5,5
				●	0,3				40	-	12,0				
RGT-VRK-016.02 RGT-SRK-016.02	2	2	-	0,2	30	51	30	31	-	7,5	16	41	60	5,5	
			●	0,3				40	-	12,0					
20	RGT-VRK-020.005 RGT-SRK-020.005	0,5	1	-	0,3	35	58	35	37	-	9,5	18	46	60	5,5
				●	0,4				45	-	14,0				
	RGT-VRK-020.01 RGT-SRK-020.01	1	1	-	0,3	35	58	35	37	-	9,5	18	46	60	5,5
				●	0,4				45	-	14,0				
RGT-VRK-020.02 RGT-SRK-020.02	2	2	-	0,3	35	58	35	37	-	9,5	18	46	60	5,5	
			●	0,4				45	-	14,0					

① Wipers: ● with wiper.

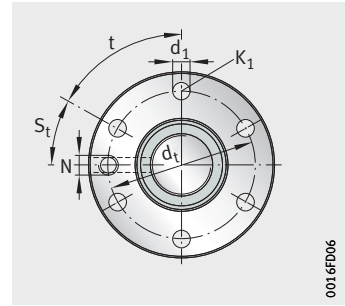
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VRK.

3) Maximum axial clearance for non-preloaded nuts RGT-SRK.

Roller screw drives with roller return

Flanged nut, single-piece
Standard design



RGT-VRK, RGT-SRK

0016FD06

Dimension table (continued) · Dimensions in mm

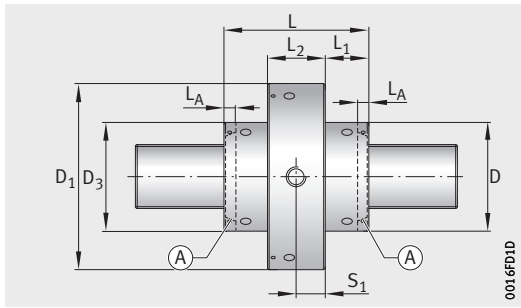
Nominal diameter d_0	Designation	Pitch P	Mobility level	①	Mass m ≈ kg	Dimensions							Mounting dimensions		
						D	D ₁	D ₃	L	L _A	L ₁	L ₂	d _t	t	d ₁
25	RGT-VRK-025.01 RGT-SRK-025.01	1	1	–	0,6	45	68	45	44	–	13,0	18	56	60	6,6
				●	0,7				54	–	18,0				
	RGT-VRK-025.02 RGT-SRK-025.02	2	2	–	0,6	45	68	45	44	–	13,0	18	56	60	6,6
				●	0,7				54	–	18,0				
32	RGT-VRK-032.01 RGT-SRK-032.01	1	1	–	1,0	56	84	56	57	–	18,5	20	70	60	6,6
				●	1,2				67	–	24,0				
	RGT-VRK-032.02 RGT-SRK-032.02	2	2	–	1,0	56	84	56	57	–	18,5	20	70	60	6,6
				●	1,2				67	–	24,0				
40	RGT-VRK-040.01 RGT-SRK-040.01	1	1	–	1,9	68	102	68	63	–	18,0	27	85	60	9,0
				●	2,1				75	–	24,0				
	RGT-VRK-040.02 RGT-SRK-040.02	2	2	–	2,0	68	102	68	63	–	18,0	27	85	60	9,0
				●	2,2				75	–	24,0				
50	RGT-VRK-050.01 RGT-SRK-050.01	1	1	–	3,4	82	124	82	85	–	26,0	33	102	60	11,0
				●	3,8				101	–	34,0				
	RGT-VRK-050.02 RGT-SRK-050.02	2	2	–	3,4	82	124	82	85	–	26,0	33	102	60	11,0
				●	3,8				101	–	34,0				
	RGT-VRK-050.03 RGT-SRK-050.03	3	2	–	3,5	82	124	82	85	–	26,0	33	102	60	11,0
				●	3,8				101	–	34,0				
	RGT-VRK-050.04 RGT-SRK-050.04	4	2	–	3,5	82	124	82	85	–	26,0	33	102	60	11,0
				●	3,8				101	–	34,0				
63	RGT-VRK-063.02 RGT-SRK-063.02	2	1	–	5,9	105	150	105	104	–	35,5	33	127	60	14,0
				●	6,5				120	–	44,0				
	RGT-VRK-063.04 RGT-SRK-063.04	4	2	–	5,9	105	150	105	104	–	35,5	33	127	60	14,0
				●	6,5				120	–	44,0				
80	RGT-VRK-080.04 RGT-SRK-080.04	4	1	–	17,6	140	200	140	175	7	65,0	45	170	22,5	18,0
				●	18,0				197	7	76,0				
100	RGT-VRK-100.05 RGT-SRK-100.05	5	1	–	31,5	180	240	180	205	10	77,5	50	210	15	18,0
				●	33,0				237	10	94,0				
				–	60,0				250	10	97,5				
125	RGT-VRK-125.05 RGT-SRK-125.05	5	1	–	60,0	220	310	220	250	10	97,5	55	270	15	20,0
				●	63,0				282	10	114,0				

① Wipers: ● with wiper.

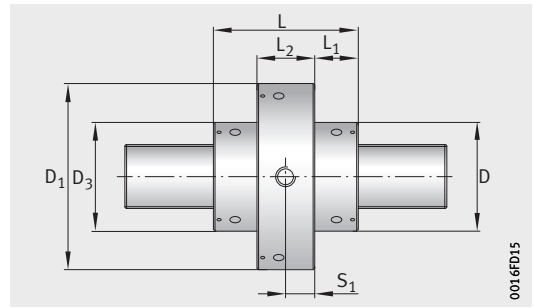
1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VRK.

3) Maximum axial clearance for non-preloaded nuts RGT-SRK.



With wiper, sizes up to 63 mm

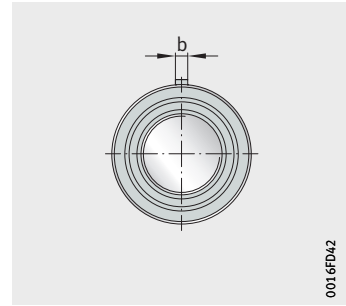


Without wiper

	Lubrication			Basic load ratings		Spring characteristic number c_{κ} $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency η_1	Limiting speed n_G min^{-1}	Axial clearance ³⁾
	K_1	N	S_1	S_t °	dyn. C N					
M6	M6	9,0	30	31 400	73 000	47,1	30	0,57	1 200	0,02
M6	M6	9,0	30	31 400	73 000	47,1	30	0,72	1 200	0,02
M6	M6	10,0	30	47 700	127 600	59,7	50	0,51	625	0,02
M6	M6	10,0	30	47 700	127 600	59,7	50	0,67	625	0,02
M8	M6	13,5	30	62 500	177 300	67,8	70	0,46	500	0,02
M8	M6	13,5	30	62 500	177 300	67,8	70	0,62	500	0,04
M10	M6	16,5	30	104 200	351 700	91,3	90	0,41	400	0,02
M10	M6	16,5	30	104 200	351 700	91,3	90	0,57	400	0,04
M10	M6	16,5	30	125 300	367 700	70,6	90	0,66	400	0,04
M10	M6	16,5	30	132 600	349 300	56,8	90	0,72	400	0,04
M12	M8×1	16,5	30	172 700	482 500	64,9	120	0,52	320	0,04
M12	M8×1	16,5	30	172 700	482 500	64,9	120	0,67	320	0,04
M16	M8×1	22,5	11,25	346 700	1 136 500	63,1	–	0,62	250	0,07
M16	M8×1	25,0	7,5	430 900	1 302 300	54,8	–	0,62	200	0,07
M18	M8×1	27,5	7,5	797 500	3 404 500	87,3	–	0,57	160	0,07

Roller screw drives with roller return

Cylindrical nut, two-piece
Standard design



RGT-VRG

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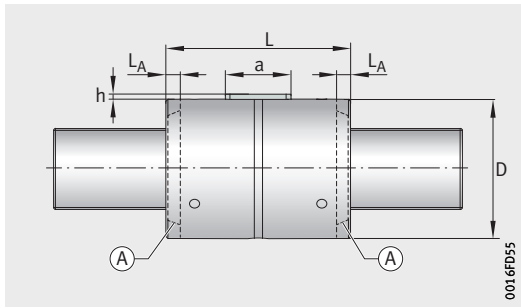
Dimension table · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	①	Mass m ≈ kg	Dimensions			Mounting dimensions		
						D g6	L h12	L_A	a	b h9	h
8	RGT-VRG-008.005	0,5	1	-	0,1	20	31	-	12	2	0,8
				●	0,1		40	-			
	RGT-VRG-008.01	1	1	-	0,1	20	31	-	12	2	0,8
				●	0,1		40	-			
10	RGT-VRG-010.005	0,5	1	-	0,1	22	31	-	12	2	0,8
				●	0,1		40	-			
		RGT-VRG-010.01	1	1	-	0,1	22	31	-	12	2
				●	0,1	40		-			
	RGT-VRG-010.02	2	2	-	0,1	22	31	-	12	2	0,8
				●	0,1		40	-			
12	RGT-VRG-012.005	0,5	1	-	0,1	24	31	-	12	2	0,8
				●	0,1		40	-			
		RGT-VRG-012.01	1	1	-	0,1	24	31	-	12	2
				●	0,1	40		-			
	RGT-VRG-012.02	2	2	-	0,1	24	31	-	12	2	0,8
				●	0,1		40	-			
16	RGT-VRG-016.005	0,5	1	-	0,1	29	31	-	12	3	1,2
				●	0,2		40	-			
		RGT-VRG-016.01	1	1	-	0,1	29	31	-	12	3
				●	0,2	40		-			
	RGT-VRG-016.02	2	2	-	0,1	29	31	-	12	3	1,2
				●	0,2		40	-			
20	RGT-VRG-020.005	0,5	1	-	0,2	34	37	-	16	3	1,2
				●	0,3		45	-			
		RGT-VRG-020.01	1	1	-	0,2	34	37	-	16	3
				●	0,3	45		-			
	RGT-VRG-020.02	2	2	-	0,2	34	37	-	16	3	1,2
				●	0,3		45	-			

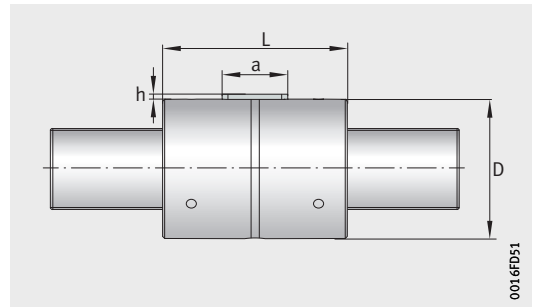
① Wipers: ● with wiper.

1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

2) Overrunning frictional torque for preloaded nuts RGT-VRG.



With wiper

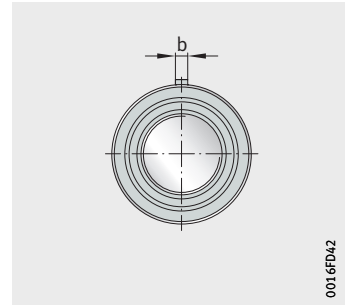


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_k $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency η_1	Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N				
2×2×12	4 500	6 800	19,3	6	0,67	3 750
2×2×12	5 200	6 100	11,6	6	0,79	3 750
2×2×12	5 300	8 400	21,9	8	0,62	3 000
2×2×12	6 200	7 600	13,1	8	0,76	3 000
2×2×12	6 200	7 600	13,1	8	0,83	3 000
2×2×12	6 100	10 000	24,3	10	0,58	2 500
2×2×12	7 100	9 100	14,6	10	0,73	2 500
2×2×12	7 100	9 100	14,6	10	0,82	2 500
3×3×12	7 400	13 300	28,8	15	0,51	1 875
3×3×12	8 500	12 100	17,3	15	0,67	1 875
3×3×12	8 500	12 100	17,3	15	0,78	1 875
3×3×16	10 000	22 700	37,7	20	0,46	1 500
3×3×16	11 800	21 300	23,0	20	0,62	1 500
3×3×16	11 800	21 300	23,0	20	0,75	1 500

Roller screw drives with roller return

Cylindrical nut, two-piece
Standard design



RGT-VRG

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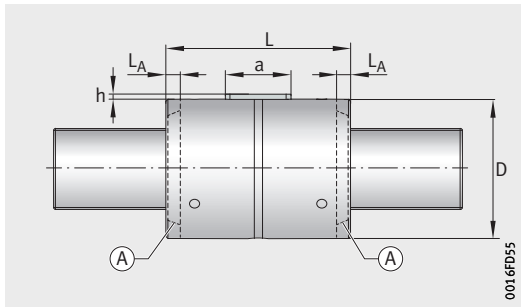
Dimension table (continued) · Dimensions in mm

Nominal diameter d_0	Designation	Pitch P	Mobility level	⊙ ¹⁾	Mass m ≈ kg	Dimensions			Mounting dimensions		
						D g6	L h12	L _A	a	b h9	h
25	RGT-VRG-025.01	1	1	– ●	0,3 0,4	42	44 54	– –	20	4	1,5
	RGT-VRG-025.02	2	2	– ●	0,3 0,4	42	44 54	– –	20	4	1,5
32	RGT-VRG-032.01	1	1	– ●	0,6 0,8	54	57 67	– –	25	4	1,5
	RGT-VRG-032.02	2	2	– ●	0,6 0,8	54	57 67	– –	25	4	1,5
40	RGT-VRG-040.01	1	1	– ●	1,1 1,3	68	63 75	– –	32	5	2,0
	RGT-VRG-040.02	2	2	– ●	1,1 1,3	68	63 75	– –	32	5	2,0
50	RGT-VRG-050.01	1	1	– ●	1,8 2,2	82	85 101	– –	32	6	2,5
	RGT-VRG-050.02	2	2	– ●	1,8 2,2	82	85 101	– –	32	6	2,5
	RGT-VRG-050.03	3	2	– ●	1,9 2,2	82	85 101	– –	32	6	2,5
	RGT-VRG-050.04	4	2	– ●	1,9 2,2	82	85 101	– –	32	6	2,5
63	RGT-VRG-063.02	2	1	– ●	3,9 4,5	103	104 120	– –	40	6	2,5
	RGT-VRG-063.04	4	2	– ●	3,9 4,5	103	104 120	– –	40	6	2,5

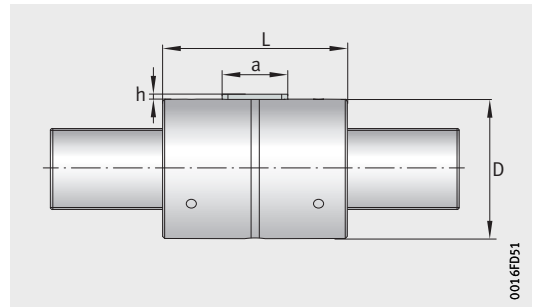
⊙ Wipers: ● with wiper.

¹⁾ Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.

²⁾ Overrunning frictional torque for preloaded nuts RGT-VRG.



With wiper

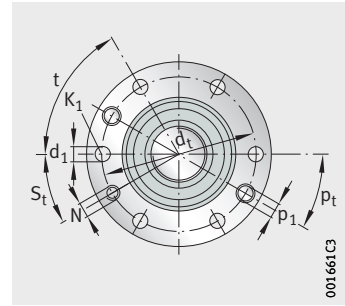


Without wiper

Feather key DIN 6885	Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ²⁾ M_V Ncm	Theoretical efficiency η_1	Limiting speed n_G min^{-1}
	dyn. C N	stat. C_0 N				
4×4×20	17 300	36 500	29,7	30	0,57	1 200
4×4×20	17 300	36 500	29,7	30	0,72	1 200
4×4×25	26 300	63 800	37,6	50	0,51	625
4×4×25	26 300	63 800	37,6	50	0,67	625
5×5×32	34 400	88 700	42,7	70	0,46	500
5×5×32	34 400	88 700	42,7	70	0,62	500
6×6×32	57 400	175 900	57,5	90	0,41	400
6×6×32	57 400	175 900	57,5	90	0,57	400
6×6×32	69 900	183 800	44,5	90	0,66	400
6×6×32	73 100	174 600	35,8	90	0,72	400
6×6×40	95 200	241 200	40,9	120	0,52	320
6×6×40	95 200	241 200	40,9	120	0,67	320

Roller screw drives with roller return

Flanged nut, two-piece
Standard design



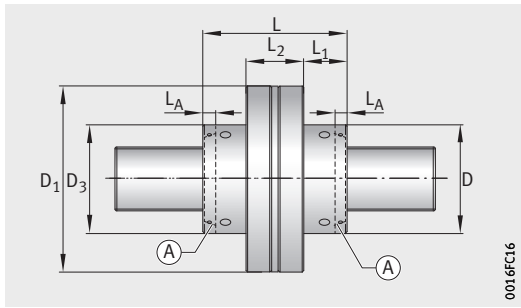
RGT-VRL

Dimension table · Dimensions in mm

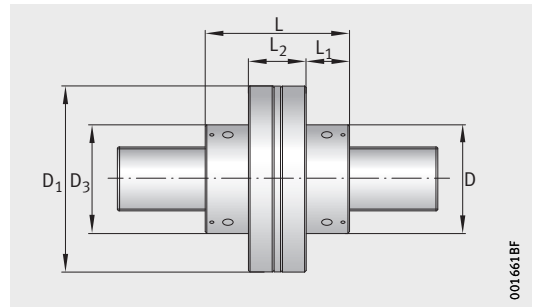
Nominal diameter d_0	Designation	Pitch P	Mobility level	⊙ ¹⁾	Mass m ≈ kg	Dimensions							Mounting dimensions		
						D	D ₁	D ₃	L	L _A	L ₁	L ₂	d_t	t	d_1
8	RGT-VRL-008.005	0,5	1	-	0,2	22	43	22	31	-	7,5	16	33	60	4,5
				●	0,2				40	-	12,0				
	RGT-VRL-008.01	1	1	-	0,2	22	43	22	31	-	7,5	16	33	60	4,5
				●	0,2				40	-	12,0				
10	RGT-VRL-010.005	0,5	1	-	0,2	22	43	22	31	-	7,5	16	33	60	4,5
				●	0,2				40	-	12,0				
	RGT-VRL-010.01	1	1	-	0,2	22	43	22	31	-	7,5	16	33	60	4,5
				●	0,2				40	-	12,0				
	RGT-VRL-010.02	2	2	-	0,2	22	43	22	31	-	7,5	16	33	60	4,5
				●	0,2				40	-	12,0				
12	RGT-VRL-012.005	0,5	1	-	0,2	25	46	25	31	-	7,5	16	36	60	4,5
				●	0,2				40	-	12,0				
	RGT-VRL-012.01	1	1	-	0,2	25	46	25	31	-	7,5	16	36	60	4,5
				●	0,2				40	-	12,0				
	RGT-VRL-012.02	2	2	-	0,2	25	46	25	31	-	7,5	16	36	60	4,5
				●	0,2				40	-	12,0				
16	RGT-VRL-016.005	0,5	1	-	0,2	30	51	30	31	-	7,5	16	41	60	5,5
				●	0,3				40	-	12,0				
	RGT-VRL-016.01	1	1	-	0,2	30	51	30	31	-	7,5	16	41	60	5,5
				●	0,3				40	-	12,0				
	RGT-VRL-016.02	2	2	-	0,2	30	51	30	31	-	7,5	16	41	60	5,5
				●	0,3				40	-	12,0				
20	RGT-VRL-020.005	0,5	1	-	0,3	35	58	35	37	-	9,5	18	46	60	5,5
				●	0,4				45	-	14,0				
	RGT-VRL-020.01	1	1	-	0,3	35	58	35	37	-	9,5	18	46	60	5,5
				●	0,4				45	-	14,0				
	RGT-VRL-020.02	2	2	-	0,3	35	58	35	37	-	9,5	18	46	60	5,5
				●	0,4				45	-	14,0				

⊙ Wipers: ● with wiper.

- 1) Depending on the variant, nuts are available without a wiper (suffix 0AB), with a wiper (suffix 1AB) or with two wipers (suffix 2AB). Please specify in the ordering designation.
- 2) Two holes are located by means of dowels, to hold the nut halves in place.
- 3) Overrunning frictional torque for preloaded nuts RGT-VRL.



With wiper

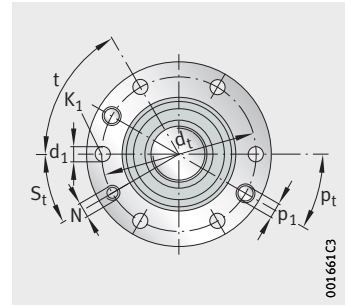


Without wiper

			Lubrication ²⁾			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency η_1	Limiting speed n_G min^{-1}
K_1	p_1	p_t °	N	S_1	S_t °	dyn. C N	stat. C ₀ N				
M4	5	30	M6	8	30	4 500	6 800	19,3	6	0,67	3 750
M4	5	30	M6	8	30	5 200	6 100	11,6	6	0,79	3 750
M4	5	30	M6	8	30	5 300	8 400	21,9	8	0,62	3 000
M4	5	30	M6	8	30	6 200	7 600	13,1	8	0,76	3 000
M4	5	30	M6	8	30	6 200	7 600	13,1	8	0,83	3 000
M4	5	30	M6	8	30	6 100	10 000	24,3	10	0,58	2 500
M4	5	30	M6	8	30	7 100	9 100	14,6	10	0,73	2 500
M4	5	30	M6	8	30	7 100	9 100	14,6	10	0,82	2 500
M5	6	30	M6	8	30	7 400	13 300	28,8	15	0,51	1 875
M5	6	30	M6	8	30	8 500	12 100	17,3	15	0,67	1 875
M5	6	30	M6	8	30	8 500	12 100	17,3	15	0,78	1 875
M5	6	30	M6	9	30	10 000	22 700	37,7	20	0,46	1 500
M5	6	30	M6	9	30	11 800	21 300	23,0	20	0,62	1 500
M5	6	30	M6	9	30	11 800	21 300	23,0	20	0,75	1 500

Roller screw drives with roller return

Flanged nut, two-piece
Standard design



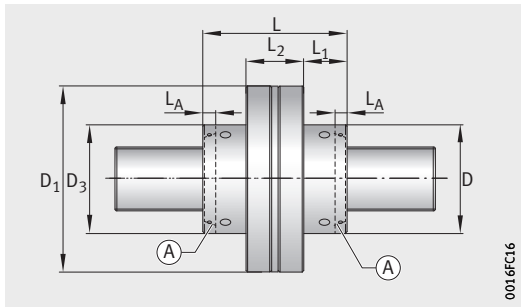
RGT-VRL

Dimension table · Dimensions in mm

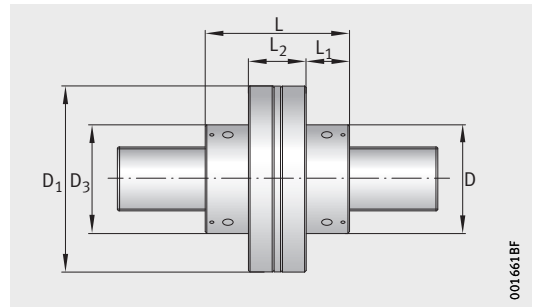
Nominal diameter d_0	Designation	Pitch P	Mobility level	①)	Mass m ≈ kg	Dimensions							Mounting dimensions		
						D	D ₁	D ₃	L	L _A	L ₁	L ₂	d _t	t	d ₁
25	RGT-VRL-025.01	1	1	-	0,6	45	68	45	44	-	13,0	18	56	60	6,6
				●	0,7				54	-	18,0				
	RGT-VRL-025.02	2	2	-	0,6	45	68	45	44	-	13,0	18	56	60	6,6
				●	0,7				54	-	18,0				
32	RGT-VRL-032.01	1	1	-	1,0	56	84	56	57	-	18,5	20	70	60	6,6
				●	1,2				67	-	24,0				
	RGT-VRL-032.02	2	2	-	1,0	56	84	56	57	-	18,5	20	70	60	6,6
				●	1,2				67	-	24,0				
40	RGT-VRL-040.01	1	1	-	1,9	68	102	68	63	-	18,0	27	85	60	9,0
				●	2,1				75	-	24,0				
	RGT-VRL-040.02	2	2	-	2,0	68	102	68	63	-	18,0	27	85	60	9,0
				●	2,2				75	-	24,0				
50	RGT-VRL-050.01	1	1	-	3,4	82	124	82	85	-	26,0	33	102	60	11,0
				●	3,8				101	-	34,0				
	RGT-VRL-050.02	2	2	-	3,4	82	124	82	85	-	26,0	33	102	60	11,0
				●	3,8				101	-	34,0				
	RGT-VRL-050.03	3	2	-	3,5	82	124	82	85	-	26,0	33	102	60	11,0
				●	3,8				101	-	34,0				
	RGT-VRL-050.04	4	2	-	3,5	82	124	82	85	-	26,0	33	102	60	11,0
				●	3,8				101	-	34,0				
63	RGT-VRL-063.02	2	1	-	5,9	105	150	105	104	-	35,5	33	127	60	14,0
				●	6,5				120	-	44,0				
	RGT-VRL-063.04	4	2	-	5,9	105	150	105	104	-	35,5	33	127	60	14,0
				●	6,5				120	-	44,0				

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With wiper



Without wiper

			Lubrication ²⁾			Basic load ratings		Spring characteristic number c_K $N^{2/3}/\mu m$	Frictional torque ³⁾ M_V Ncm	Theoretical efficiency η_1	Limiting speed n_G min^{-1}
K_1	p_1	p_t °	N	S_1	S_t °	dyn. C N	stat. C_0 N				
M6	6	30	M6	9,0	30	17 300	36 500	29,7	30	0,57	1 200
M6	6	30	M6	9,0	30	17 300	36 500	29,7	30	0,72	1 200
M6	6	30	M6	10,0	30	26 300	63 800	37,6	50	0,51	1 200
M6	6	30	M6	10,0	30	26 300	63 800	37,6	50	0,67	1 200
M8	8	30	M6	13,5	30	34 400	88 700	42,7	70	0,46	500
M8	8	30	M6	13,5	30	34 400	88 700	42,7	70	0,62	500
M10	8	30	M6	16,5	30	57 400	175 900	57,5	90	0,41	400
M10	8	30	M6	16,5	30	57 400	175 900	57,5	90	0,57	400
M10	8	30	M6	16,5	30	69 000	183 800	44,5	90	0,66	400
M10	8	30	M6	16,5	30	73 100	174 600	35,8	90	0,72	400
M12	10	30	M8×1	16,5	30	95 200	241 200	40,9	120	0,52	320
M12	10	30	M8×1	16,5	30	95 200	241 200	40,9	120	0,67	320

GSA AG

Gewinde Satelliten Antriebe AG

Baselstrasse 5

4532 Feldbrunnen

Switzerland

www.gsascrews.com

info@gsascrews.com

Phone +41 32 623 63 74

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Gewinde Satelliten Antriebe AG
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