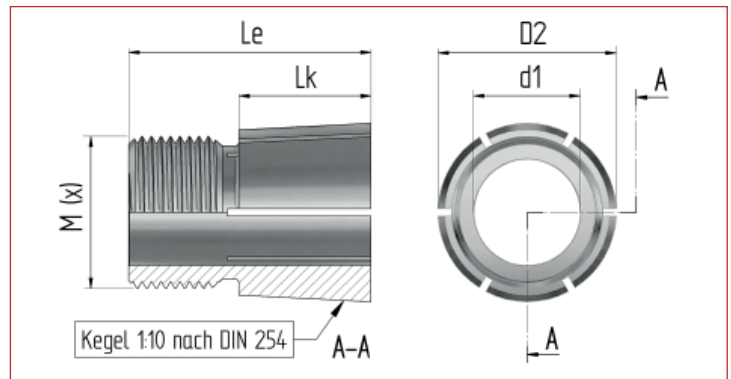


BOQA® Fastening Elements product group 0950 for shaft diameter = 4.00 mm

Technical Data (general)

Material	: Preferably stainless steel 1.4104 (X12CrMoS17) or 1.4305 (X10CrNiS18 9) according to DIN 17 440 (other suitable materials upon request)
Cocentricity	: Concentricity tolerance approx. 0,01 mm
Surface quality	: Ra = 3,2 µm (shaft) Ra = 1,6 µm (taper)
Seat (bore)	: d1 = H7 (at the unslotted part)



Technical Data (individual)

Fastening Element BOQA® Article-No.:	10023A-4k	10023-4kz	10023A-4	10023-2013-4	10023-4z
for shaft diameters (d1)	4,00	4,00	4,00	4,00	4,00
Hub width (B) max.	6,00	6,00	9,00	10,00	10,00
Taper diameter front (D2)	9,50	9,50	9,50	9,50	9,50
Taper length (L _k)	4,60	4,40	6,00	7,00	7,00
Counter bearing, length	-	5,00	-	-	5,00
Counter bearing, diameter	-	5,00	-	-	5,00
Bore depth for shaft journal	-	12,00	-	-	9,00
Overall length (L _e)	10,00	15,00	12,30	13,00	18,00
Taper ratio (C)	C=1:x	1:10	1:10	1:10	1:10
Taper angle (α)	5,725	5,725	5,725	5,725	5,725
Thread (metric DIN)	M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 0,5
Hex socket key width (SW)	-	-	-	-	-

Fastening Nut (standard similar to DIN 439 or DIN 936, galvanised steel / stainless steel for an additional charge)

Thread (metric DIN)	M (x)	M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 0,5
Key width (SW)	mm	10	10	10	10	10
Nut height (m)	mm	3,00	3,00	3,00	3,00	3,00
Recommended tightening torque ¹⁾ Nm		5,00	5,00	7,00	7,50	7,50

Transmission Values ²⁾

Torque (M)	Nm	2,00	2,00	2,90	3,10	3,10
Thrust (F _e)	kN	0,29	0,29	0,42	0,45	0,45
Hub load (pF)	N/mm ²	32,84	34,26	35,79	33,23	33,23

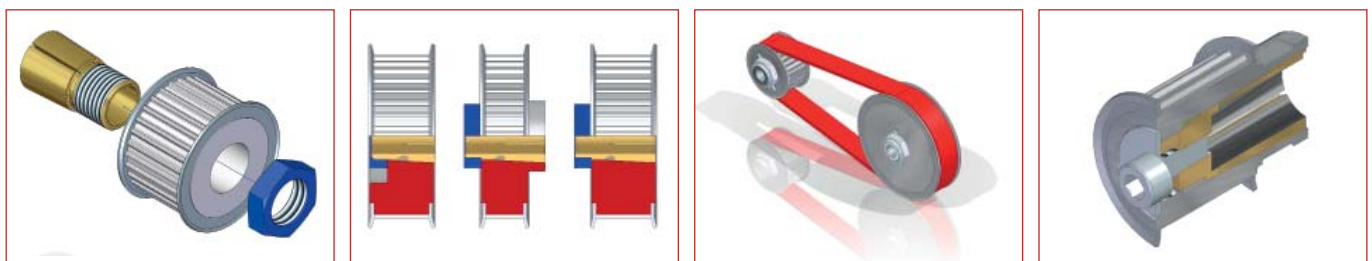
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BOQA® fastening elements are available in various lengths based on commercially available belt pulley widths and customised designs.



Article-No.:	10023A-4k	10023-4kz	10023A-4	10023-2013-4	10023-4z	10225-4skr
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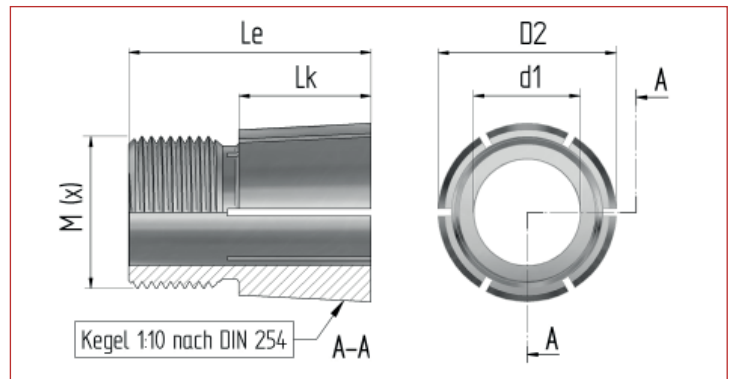
The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 0950 for shaft diameter = 4.00 mm

Technical Data (general)

Material	: Preferably stainless steel 1.4104 (X12CrMoS17) or 1.4305 (X10CrNiS18 9) according to DIN 17 440 (other suitable materials upon request)
Cocentricity	: Concentricity tolerance approx. 0,01 mm
Surface quality	: $R_a = 3,2 \mu\text{m}$ (shaft) $R_a = 1,6 \mu\text{m}$ (taper)
Seat (bore)	: $d1 = H7$ (at the unslotted part)



Technical Data (individual)

Fastening Element BOQA® Article-No.:		10224-4skr	10225-4skr
for shaft diameters (d1)	mm	4,00	4,00
Hub width (B) max	mm	10,00	10,00
Taper diameter front (D2)	mm	9,50	9,50
Taper length (L _k)	mm	7,00	8,50
Counter bearing, length	mm	-	-
Counter bearing, diameter	mm	8h7	-
Bore depth for shaft journal	mm	-	-
Overall length (L _e)	mm	18,00	13,50
Taper ratio (C)	C=1:x	1:10	1:10
Taper angle (α)	°	5,725	5,725
Thread (metric DIN)	M (x)	-	M8 x 1,0
Hex socket key width (SW)	mm	-	-

Fastening Nut (standard similar to DIN 439 or DIN 936, galvanised steel / stainless steel for an additional charge)

Thread (metric DIN)	M (x)	Lagerpassung	M8 x 1,0
Key width (SW)	mm		10
Nut height (m)	mm		3,00
Recommended tightening torque ¹⁾	Nm		8,00

Transmission Values ²⁾

Torque (M)	Nm	3,30
Thrust (F_e)	kN	0,48
Hub load (p_F)	N/mm ²	29,67

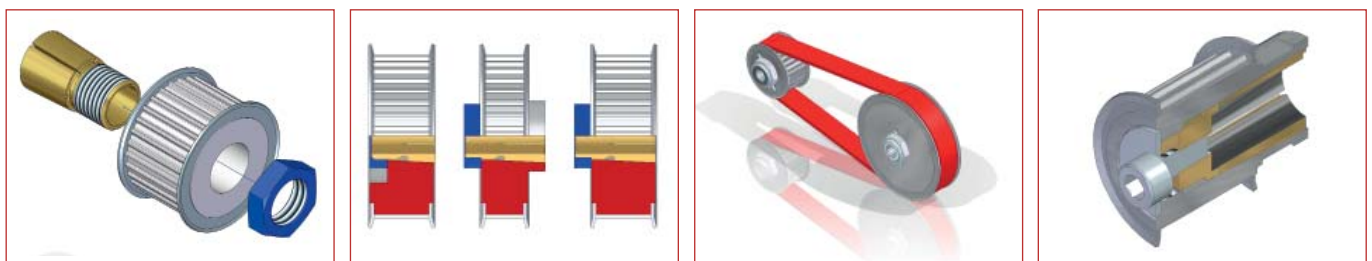
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BOQA® fastening elements are available in various lengths based on commercially available belt pulley widths and customised designs.



Article-No.: 10023A-4k 10023-4kz 10023A-4 ... 10023-2013-4 10023-4z 10225-4skr

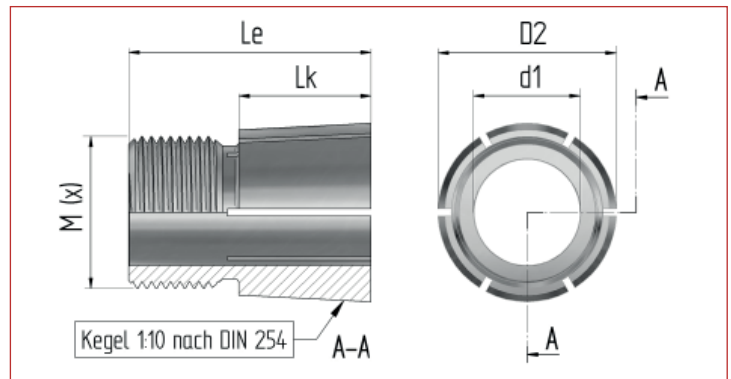
The use of **BOQA®** fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 0950 for shaft diameter = 4.00 mm

Technical Data (general)

Material	Preferably stainless steel 1.4104 (X12CrMoS17) or 1.4305 (X10CrNiS18 9) according to DIN 17 440 (other suitable materials upon request)
Cocentricity	Concentricity tolerance approx. 0,01 mm
Surface quality	Ra = 3,2 µm (shaft) Ra = 1,6 µm (taper)
Seat (bore)	d1 = H7 (at the unslotted part)



Technical Data (individual)

Fastening Element BOQA® Article-No.:	11023A-4	10024A-4S	11024A-4	10024-4z VAR.E	10024-4	10024A-4
for shaft diameters (d1)	mm 4,00	4,00	4,00	4,00	4,00	4,00
Hub width (B) max.	mm 12,00	13,00	14,00	16,00	16,00	16,00
Taper diameter front (D2)	mm 9,50	9,50	9,50	9,50	9,50	9,50
Taper length (L _k)	mm 8,50	9,40	10,30	9,40	10,90	10,90
Counter bearing, length	mm -	-	-	5,20	-	-
Counter bearing, diameter	mm -	-	-	5,00	-	-
Bore depth for shaft journalmm	-	-	10,30	-	-	-
Overall length (L _e)	mm 14,80	16,00	16,60	25,00	18,80	18,80
Taper ratio (C)	C=1:x 1:10	1:10	1:10	1:10	1:10	1:10
Taper angle (α)	° 5,725	5,725	5,725	5,725	5,725	5,725
Thread (metric DIN)	M (x) M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 1,0	M8 x 1,0	M8 x 0,5
Hex socket key width (SW)	mm -	-	-	-	-	-

Fastening Nut (standard similar to DIN 439 or DIN 936, galvanised steel / stainless steel for an additional charge)

Thread (metric DIN)	M (x) M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 1,0	M8 x 1,0	M8 x 0,5
Key width (SW)	mm 10	10	10	10	10	10
Nut height (m)	mm 3,00	3,00	3,00	3,00	3,00	3,00
Recommended tightening torque ¹⁾ Nm	8,00	8,50	9,00	8,50	10,00	10,00

Transmission Values ²⁾

Torque (M)	Nm 3,30	3,50	3,70	3,50	4,10	4,10
Thrust (F _E)	kN 0,48	0,51	0,55	0,51	0,61	0,61
Hub load (pF)	N/mm ² 29,67	28,79	28,10	28,79	29,71	29,71

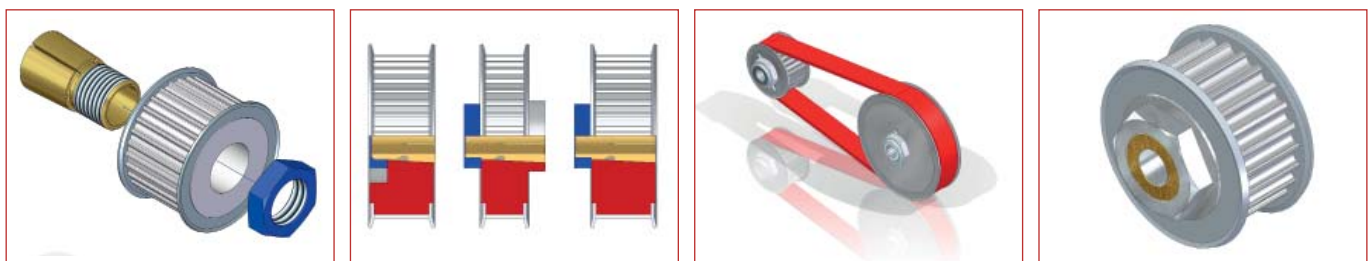
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BOQA® fastening elements are available in various lengths based on commercially available belt pulley widths and customised designs.



Article-No.: 11023A-4 10024A-4S 11024A-4 . 10024-4z VAR.E 10024-4 10024A-4

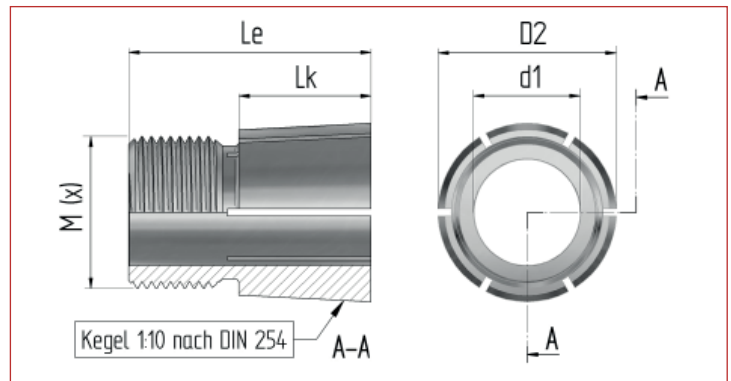
The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 0950 for shaft diameter = 5.00 mm

Technical Data (general)

Material	Preferably stainless steel 1.4104 (X12CrMoS17) or 1.4305 (X10CrNiS18 9) according to DIN 17 440 (other suitable materials upon request)
Cocentricity	Concentricity tolerance approx. 0,01 mm
Surface quality	Ra = 3,2 µm (shaft) Ra = 1,6 µm (taper)
Seat (bore)	d1 = H7 (at the unslotted part)



Technical Data (individual)

Fastening Element BOQA® Article-No.:	11023A-5	10024A-5S	10024-S	11024	11024A-5	10024-5z	VAR.E
for shaft diameters (d1)	mm 5,00	5,00	5,00	5,00	5,00	5,00	5,00
Hub width (B) max.	mm 12,00	13,00	13,00	14,00	14,00	16,00	16,00
Taper diameter front (D2)	mm 9,50	9,50	9,50	9,50	9,50	9,50	9,50
Taper length (L _k)	mm 8,50	9,40	9,40	10,30	10,30	9,40	9,40
Counter bearing, length	mm -	-	-	-	-	5,20	5,20
Counter bearing, diameter	mm -	-	-	-	-	5,00	5,00
Bore depth for shaft journalmm	-	-	-	-	10,30	-	-
Overall length (L _e)	mm 14,80	16,00	16,00	16,60	16,60	25,00	25,00
Taper ratio (C)	C=1:x 1:10	1:10	1:10	1:10	1:10	1:10	1:10
Taper angle (α)	° 5,725	5,725	5,725	5,725	5,725	5,725	5,725
Thread (metric DIN)	M (x) M8 x 0,5	M8 x 0,5	M8 x 1,0	M8 x 1,0	M8 x 0,5	M8 x 1,0	M8 x 1,0
Hex socket key width (SW)	mm -	-	-	-	-	-	-

Fastening Nut (standard similar to DIN 439 or DIN 936, galvanised steel / stainless steel for an additional charge)

Thread (metric DIN)	M (x) M8 x 0,5	M8 x 0,5	M8 x 1,0	M8 x 1,0	M8 x 0,5	M8 x 1,0	M8 x 1,0
Key width (SW)	mm 10	10	10	10	10	10	10
Nut height (m)	mm 3,00	3,00	3,00	3,00	3,00	3,00	3,00
Recommended tightening torque ¹⁾ Nm	8,50	9,00	9,00	9,50	9,50	9,50	9,50

Transmission Values ²⁾

Torque (M)	Nm 3,50	3,70	3,70	3,90	3,90	3,90	3,90
Thrust (F _e)	kN 0,51	0,54	0,54	0,58	0,58	0,57	0,57
Hub load (pF)	N/mm ² 31,53	30,49	30,49	29,67	29,67	32,18	32,18

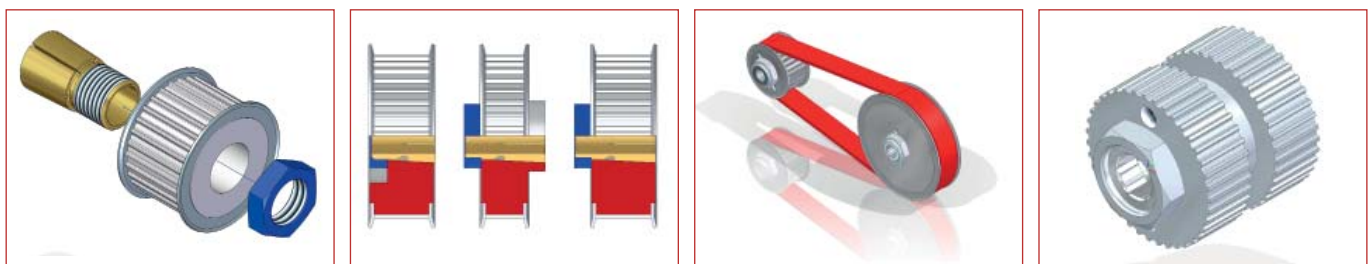
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BOQA® fastening elements are available in various lengths based on commercially available belt pulley widths and customised designs.



Article-No.:	11023A-5	10024A-5S	10024-S	11024	11024A-5	10024-5z	VAR.E
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The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.

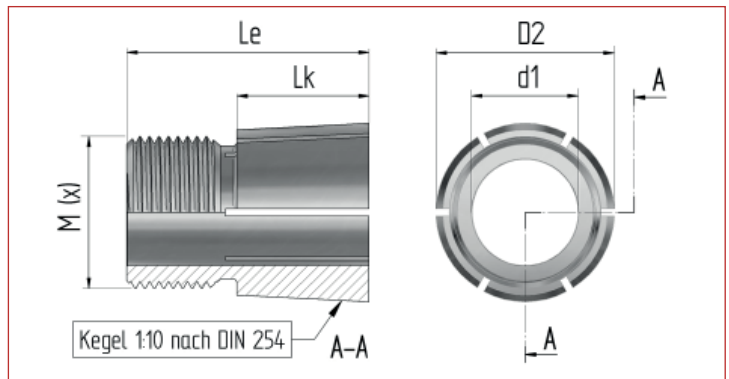


Technical drawing of a tapered roller bearing. The left view is a side cross-section showing the outer ring with outer diameter D_2 and inner diameter d_1 . The total width is Le , and the width of the tapered roller set is L_k . The right view is a cross-section of the tapered roller set, showing the outer diameter D_2 and inner diameter d_1 . The cross-section is labeled $A-A$. A label at the bottom left indicates the taper: **Kegel 1:10 nach DIN 254**.

BOQA® Fastening Elements product group 0950 for shaft diameter = 6.00 mm

Technical Data (general)

Material	Preferably stainless steel 1.4104 (X12CrMoS17) or 1.4305 (X10CrNiS18 9) according to DIN 17 440 (other suitable materials upon request)
Cocentricity	Concentricity tolerance approx. 0,01 mm
Surface quality	Ra = 3,2 µm (shaft) Ra = 1,6 µm (taper)
Seat (bore)	d1 = H7 (at the unslotted part)



Technical Data (individual)

Fastening Element BOQA® Article-No.:..... **10023A-6k** **10023A-6** ... **10023-2013-6** **11023A-6** ... **10024A-6S** . **10024-6z VAR.A**

for shaft diameters (d1)	mm	6,00	6,00	6,00	6,00	6,00	6,00
Hub width (B) max.	mm	6,00	9,00	10,00	12,00	13,00	16,00
Taper diameter front (D2)	mm	9,50	9,50	9,50	9,50	9,50	9,50
Taper length (L _k)	mm	4,60	6,00	7,00	8,50	9,40	9,40
Counter bearing, length	mm	-	-	-	-	-	5,20
Counter bearing, diameter	mm	-	-	-	-	-	5,00
Bore depth for shaft journal	mm	-	-	-	-	8,50	-
Overall length (L _e)	mm	10,00	12,30	13,00	14,80	16,00	25,00
Taper ratio (C)	C=1:x	1:10	1:10	1:10	1:10	1:10	1:10
Taper angle (α)	°	5,725	5,725	5,725	5,725	5,725	5,725
Thread (metric DIN)	M (x)	M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 1,0
Hex socket key width (SW)	mm	-	-	-	-	-	-

Fastening Nut (standard similar to DIN 439 or DIN 936, galvanised steel / stainless steel for an additional charge)

Thread (metric DIN)	M (x)	M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 1,0
Key width (SW)	mm	10	10	10	10	10	10
Nut height (m)	mm	3,00	3,00	3,00	3,00	3,00	3,00
Recommended tightening torque ¹⁾ Nm	Nm	7,00	7,50	8,00	8,50	9,00	9,00

Transmission Values ²⁾

Torque (M)	Nm	2,90	3,10	3,30	3,50	3,70	3,70
Thrust (F _E)	kN	0,41	0,45	0,48	0,51	0,54	0,54
Hub load (pF)	N/mm ²	45,98	38,35	35,44	31,53	30,49	30,49

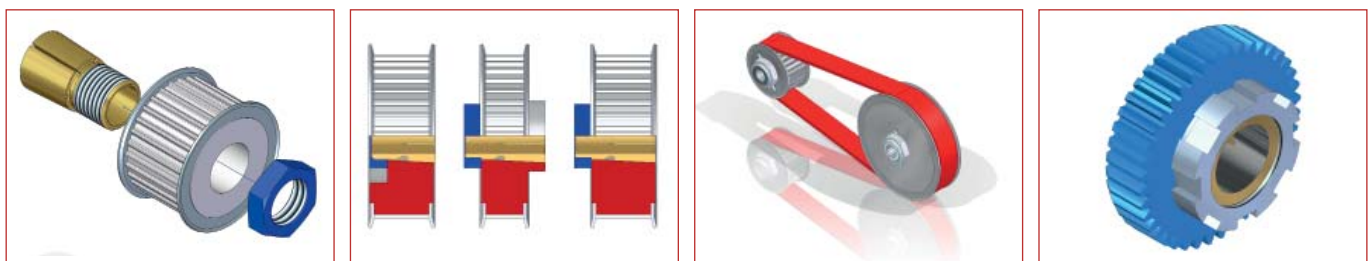
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BOQA® fastening elements are available in various lengths based on commercially available belt pulley widths and customised designs.



Article-No.: **10023A-6k** **10023A-6** .. **10023-2013-6** **11023A-6** **10024A-6S** **10024-6z VAR.A**

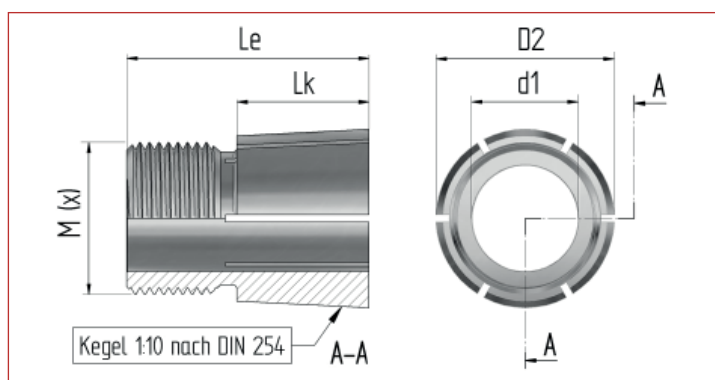
The use of **BOQA®** fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 0950 for shaft diameter = 6.00 mm

Technical Data (general)

Material	Preferably stainless steel 1.4104 (X12CrMoS17) or 1.4305 (X10CrNiS18 9) according to DIN 17 440 (other suitable materials upon request)
Cocentricity	Concentricity tolerance approx. 0,01 mm
Surface quality	Ra = 3,2 µm (shaft) Ra = 1,6 µm (taper)
Seat (bore)	d1 = H7 (at the unslotted part)



Technical Data (individual)

Fastening Element BOQA® Article-No.:	11024A-6	10024-6	10024-6skr	10024-6L-ISK	10024-6Lskr	10024A-6
for shaft diameters (d1)	6,00	6,00	6,00	6,00	6,00	6,00
Hub width (B) max.	14,00	16,00	16,00	16,00	16,00	16,00
Taper diameter front (D2)	9,50	9,50	9,50	9,50	9,50	9,50
Taper length (L _k)	10,30	10,90	10,90	11,00	11,00	12,50
Counter bearing, length	-	-	-	-	-	-
Counter bearing, diameter	-	-	-	-	-	-
Bore depth for shaft journalmm	-	-	-	-	-	-
Overall length (L _e)	16,60	18,80	18,80	19,50	19,50	21,30
Taper ratio (C)	C=1:x	1:10	1:10	1:10	1:10	1:10
Taper angle (α)	5,725	5,725	5,725	5,725	5,725	5,725
Thread (metric DIN)	M (x)	M8 x 0,5	M8 x 1,0	M8 x 0,5	M8 x 0,5	M8 x 1,0
Hex socket key width (SW)	-	-	-	4 mm	-	-

Fastening Nut (standard similar to DIN 439 or DIN 936, galvanised steel / stainless steel for an additional charge)

Thread (metric DIN)	M (x)	M8 x 0,5	M8 x 1,0	M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 1,0
Key width (SW)	mm	10	10	10	10	10	10
Nut height (m)	mm	3,00	3,00	3,00	3,00	3,00	3,00
Recommended tightening torque ¹⁾ Nm		9,50	10,00	10,00	10,50	10,50	11,00

Transmission Values ²⁾

Torque (M)	Nm	3,90	4,10	4,10	4,30	4,30	4,50
Thrust (F _e)	kN	0,58	0,61	0,61	0,64	0,64	0,68
Hub load (pF)	N/mm ²	29,67	29,71	29,71	30,94	30,49	29,01

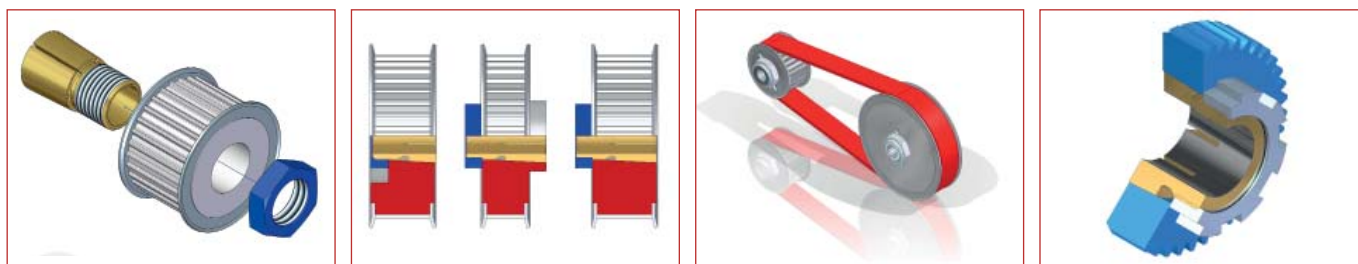
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BOQA® fastening elements are available in various lengths based on commercially available belt pulley widths and customised designs.



Article-No.:	11024A-6	10024-6	10024-6skr	10024-6L-ISK	10024-6Lskr	10024A-6
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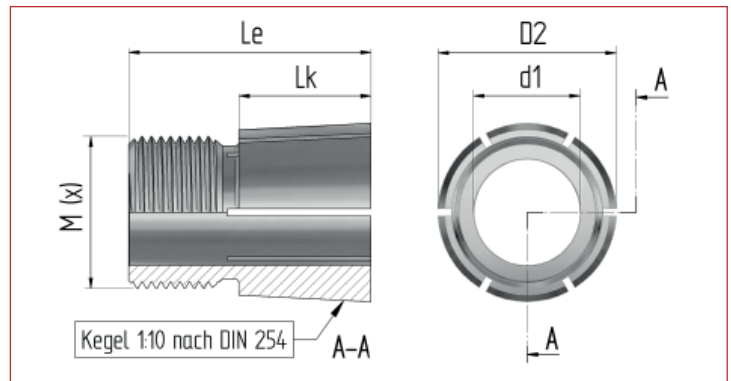
Technical drawing of a tapered roller bearing. The left view is a side cross-section showing the outer ring with outer diameter D_2 , the inner ring with inner diameter d_1 , and the rollers. The total width is Le and the width of the roller set is Lk . The height of the outer ring is $M(x)$. The right view is a cross-section labeled A-A, showing the tapered rollers. A label 'Kegel 1:10 nach DIN 254' points to the taper of the rollers.

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BOQA® Fastening Elements product group 0950 for shaft diameter = 6.35 mm (1/4")

Technical Data (general)

Material	: Preferably stainless steel 1.4104 (X12CrMoS17) or 1.4305 (X10CrNiS18 9) according to DIN 17 440 (other suitable materials upon request)
Cocentricity	: Concentricity tolerance approx. 0,01 mm
Surface quality	: $R_a = 3,2 \mu\text{m}$ (shaft) $R_a = 1,6 \mu\text{m}$ (taper)
Seat (bore)	: $d1 = H7$ (at the unslotted part)



Technical Data (individual)

Fastening Element BOQA® Article-No.:	10024A-6.35S	11024A-6.35	10024A-6.35	10024-6.35Lskr
for shaft diameters (d1)	mm 6,35	6,35	6,35	6,35
Hub width (B) max	mm 13,00	14,00	16,00	16,00
Taper diameter front (D2).....	mm 9,50	9,50	9,50	9,50
Taper length (L _k)	mm 9,40	10,30	10,90	11,00
Counter bearing, length.....	mm -	-	-	-
Counter bearing, diameter.....	mm -	-	-	-
Bore depth for shaft journalmm	-	-	-	-
Overall length (L _e)	mm 16,00	16,60	18,80	19,50
Taper ratio (C)	C=1:x 1:10	1:10	1:10	1:10
Taper angle (α).....	° 5,725	5,725	5,725	5,725
Thread (metric DIN).....	M (x) M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 0,5
Hex socket key width (SW)	mm -	-	-	-

Fastening Nut (standard similar to DIN 439 or DIN 936, galvanised steel / stainless steel for an additional charge)

Thread (metric DIN)	M (x)	M8 x 0,5	M8 x 0,5	M8 x 0,5	M8 x 0,5
Key width (SW)	mm	10	10	10	10
Nut height (m)	mm	3,00	3,00	3,00	3,00
Recommended tightening torque ¹⁾	Nm	10,00	10,50	11,00	12,00

Transmission Values ²⁾

Torque (M)	Nm	4,10	4,30	4,50	4,90
Thrust (F_e)	kN	0,60	0,64	0,67	0,73
Hub load (p_F)	N/mm ²	33,88	32,79	32,68	35,36

- Values provided for the tightening torque of the nut for BOQA® fastening elements are recommended values only and lie within the lower third of the permissible range. Optimal tightening torque values for each case should be determined empirically, and should be stated explicitly in the assembly instructions.
- The table values for the individual performance statistics are derived from the standard combination of steel shaft and aluminium hub (e.g., belt pulley) and therefore take the lower yield strength (R_e) of the hub material into account. Values for the permissible surface pressure are based upon estimated for increasing loads. All stated values are approximate reference values. Actual performance data are determined by factors not within our control, such as shaft/hub material properties, surface quality of the shaft and bore inside the hub, permitted manufacturing tolerances, hub length, the actual tightening torque of the BOQA® fastening element fastening nut, etc..

BOQA® fastening elements are available in various lengths based on commercially available belt pulley widths and customised designs.



Article-No.:	10024A-6.35S	11024A-6.35	10024A-6.35	10024-6.35skr	10024-6.35Lskr
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The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.

