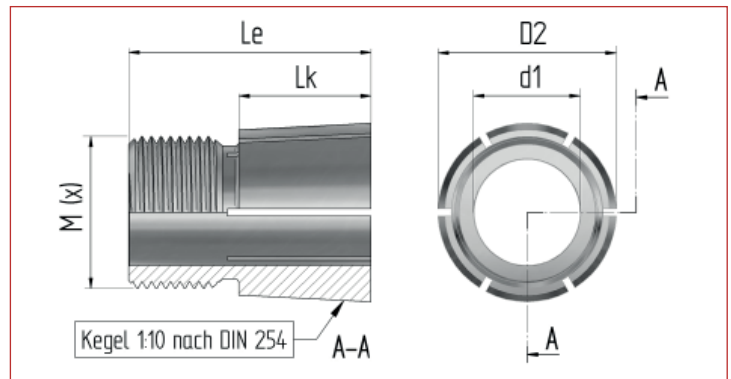


BOQA® Fastening Elements product group 1810 for shaft diameter = 7.00 mm

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.:	10157	10157-ISK	10158	10158-ISK
for shaft diameters (d1)	7,00	7,00	7,00	7,00
Hub width (B) max.	16,00	16,00	22,00	22,00
Taper diameter front (D2)	18,10	18,10	18,10	18,10
Taper length (L _k)	10,00	10,00	15,70	15,70
Counter bearing, length	-	-	-	-
Counter bearing, diameter	-	-	-	-
Bore depth for shaft journal	-	-	-	-
Overall length (L _e)	21,90	21,90	27,60	27,60
Taper ratio (C)	C=1:x	1:10	1:10	1:10
Taper angle (α)	5,725	5,725	5,725	5,725
Thread (metric DIN)	M16 x 1	M16 x 1	M16 x 1	M16 x 1
Hex socket key width (SW)	-	10 mm	-	10 mm

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

Thread (metric DIN)	M (x)	M16 x 1	M16 x 1	M16 x 1	M16 x 1
Key width (SW)	mm	19	19	19	19
Nut height (m)	mm	5,00	5,00	5,00	5,00
Recommended tightening torque ¹⁾ Nm		20,00	20,00	30,00	30,00

Transmission Values ²⁾

Torque (M)	Nm	12,00	12,00	18,00	18,00
Thrust (F _e)	kN	0,91	0,91	1,39	1,39
Hub load (pF)	N/mm ²	24,64	24,64	24,32	24,32

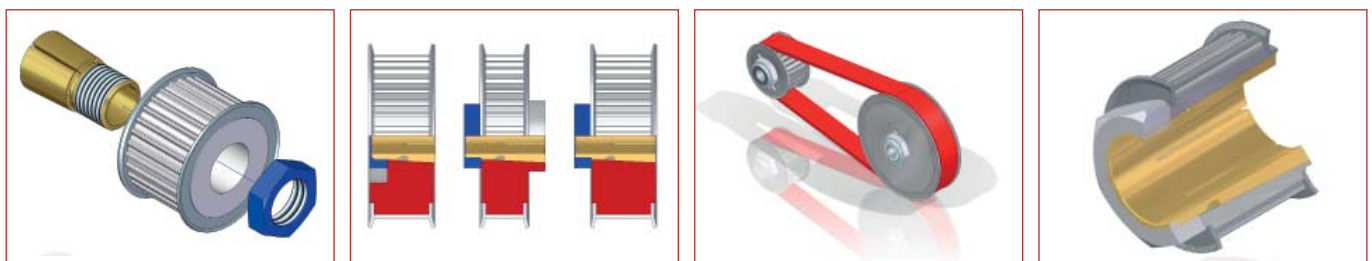
- 1) Values provided for the tightening torque of the nut for **BOQA®** fastening elements are recommended values only and lie within the lower third of the permissible range. Optimal tightening torque values for each case should be determined empirically, and should be stated explicitly in the assembly instructions.
- 2) 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 (Re) 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.:	10157	10157-ISK	10158	10158-ISK
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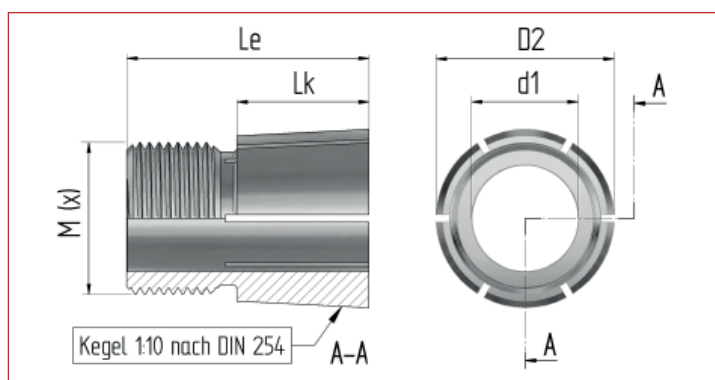
The use of **BOQA®** fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 1810 for shaft diameter = 8.00 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.:	10167	10167-ISK	10168	10168-ISK	10169	10169-ISK
for shaft diameters (d1)	8,00	8,00	8,00	8,00	8,00	8,00
Hub width (B) max.	16,00	16,00	22,00	22,00	30,00	30,00
Taper diameter front (D2)	18,10	18,10	18,10	18,10	18,10	18,10
Taper length (L _k)	10,00	10,00	15,70	15,70	24,40	24,40
Counter bearing, length	-	-	-	-	-	-
Counter bearing, diameter	-	-	-	-	-	-
Bore depth for shaft journal	-	-	-	-	-	-
Overall length (L _e)	21,90	21,90	27,60	27,60	36,90	36,90
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)	M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1
Hex socket key width (SW)	-	10 mm	-	10 mm	-	10 mm

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

Thread (metric DIN)	M (x)	M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1
Key width (SW)	mm	19	19	19	19	19	19
Nut height (m)	mm	5,00	5,00	5,00	5,00	5,00	5,00
Recommended tightening torque ¹⁾ Nm		22,00	22,00	32,00	32,00	42,00	42,00

Transmission Values ²⁾

Torque (M)	Nm	13,20	13,20	19,20	19,20	25,20	25,20
Thrust (F _e)	kN	1,00	1,00	1,48	1,48	1,99	1,99
Hub load (pF)	N/mm ²	27,10	27,10	25,94	25,94	23,05	23,05

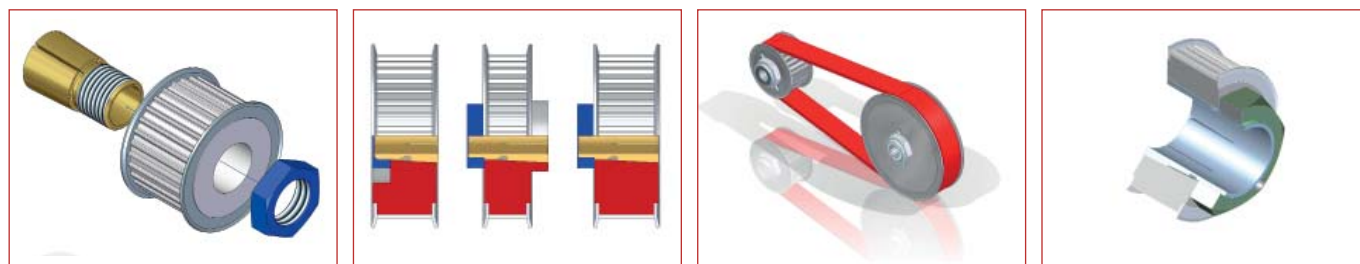
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BOQA® fastening elements are available in various lengths based on commercially available belt pulley widths and customised designs.



Article-No.:	10167	10167-ISK	10168	10168-ISK	10169	10169-ISK
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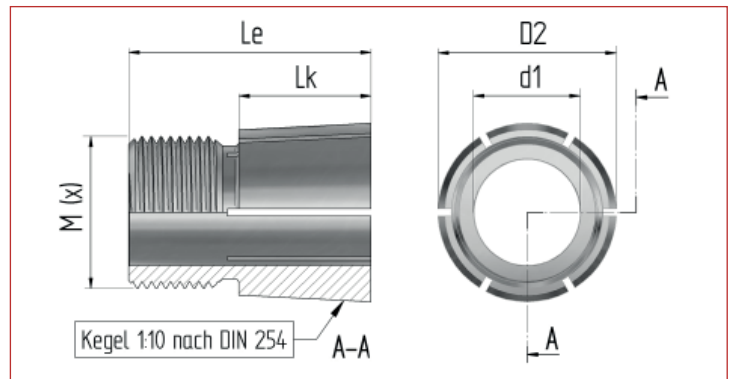
The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 1810 for shaft diameter = 9.00 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.:	10173	10173-ISK	10174	10174-ISK	10175	10175-ISK
for shaft diameters (d1)	9,00	9,00	9,00	9,00	9,00	9,00
Hub width (B) max.	16,00	16,00	22,00	22,00	30,00	30,00
Taper diameter front (D2)	18,10	18,10	18,10	18,10	18,10	18,10
Taper length (L _k)	10,00	10,00	15,70	15,70	24,40	24,40
Counter bearing, length	-	-	-	-	-	-
Counter bearing, diameter	-	-	-	-	-	-
Bore depth for shaft journal	-	-	-	-	-	-
Overall length (L _e)	21,90	21,90	27,60	27,60	36,90	36,90
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)	M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1
Hex socket key width (SW)	-	10 mm	-	10 mm	-	10 mm

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

Thread (metric DIN)	M (x)	M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1
Key width (SW)	mm	19	19	19	19	19	19
Nut height (m)	mm	5,00	5,00	5,00	5,00	5,00	5,00
Recommended tightening torque ¹⁾ Nm		24,00	24,00	34,00	34,00	44,00	44,00

Transmission Values ²⁾

Torque (M)	Nm	14,40	14,40	20,40	20,40	26,40	26,40
Thrust (F _e)	kN	1,09	1,09	1,58	1,58	2,09	2,09
Hub load (pF)	N/mm ²	29,56	29,56	27,56	27,56	24,15	24,15

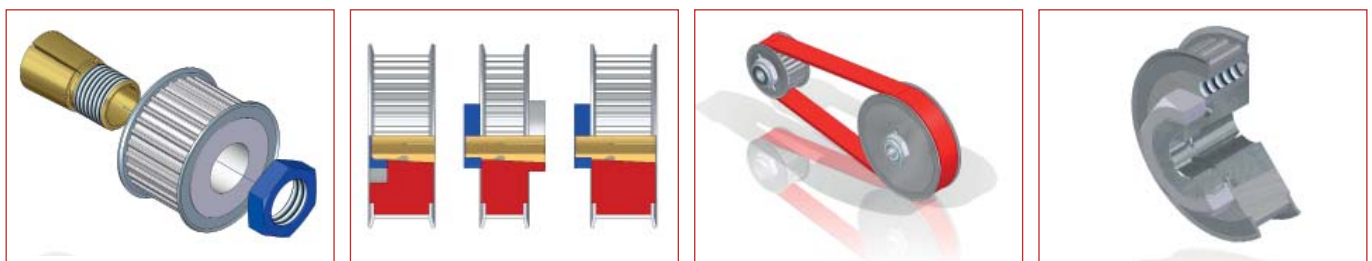
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BOQA® fastening elements are available in various lengths based on commercially available belt pulley widths and customised designs.



Article-No.:	10173	10173-ISK	10174	10174-ISK	10175	10175-ISK
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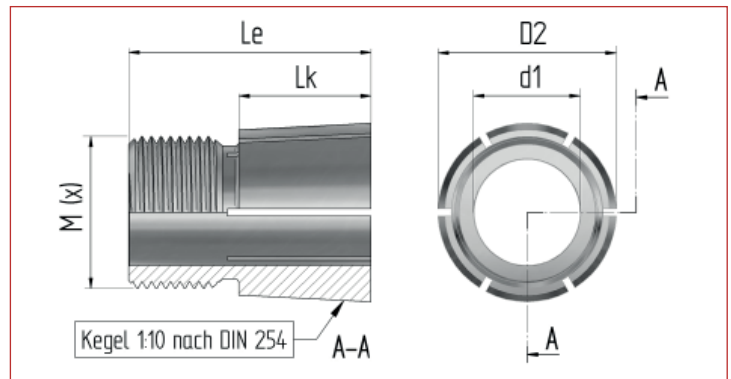
The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 1810 for shaft diameter = 9.52 mm (3/8")

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	: Cocentricity 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.:	10125	10125-ISK	10126	10126-ISK	10127	10127-ISK
for shaft diameters (d1)	mm 9,52	9,52	9,52	9,52	9,52	9,52
Hub width (B) max.	mm 16,00	16,00	22,00	22,00	30,00	30,00
Taper diameter front (D2)	mm 18,10	18,10	18,10	18,10	18,10	18,10
Taper length (L _k)	mm 10,00	10,00	15,70	15,70	24,40	24,40
Counter bearing, length	mm -	-	-	-	-	-
Counter bearing, diameter	mm -	-	-	-	-	-
Bore depth for shaft journal	mm -	-	-	-	-	-
Overall length (L _e)	mm 21,90	21,90	27,60	27,60	36,90	36,90
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) M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1
Hex socket key width (SW)	mm -	10 mm	-	10 mm	-	10 mm

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

Thread (metric DIN)	M (x) M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1
Key width (SW)	mm 19	19	19	19	19	19
Nut height (m)	mm 5,00	5,00	5,00	5,00	5,00	5,00
Recommended tightening torque ¹⁾ Nm	26,00	26,00	36,00	36,00	46,00	46,00

Transmission Values ²⁾

Torque (M)	Nm 15,60	15,60	21,60	21,60	27,60	27,60
Thrust (F _e)	kN 1,19	1,19	1,67	1,67	2,19	2,19
Hub load (pF)	N/mm ² 32,03	32,03	29,18	29,18	25,24	25,24

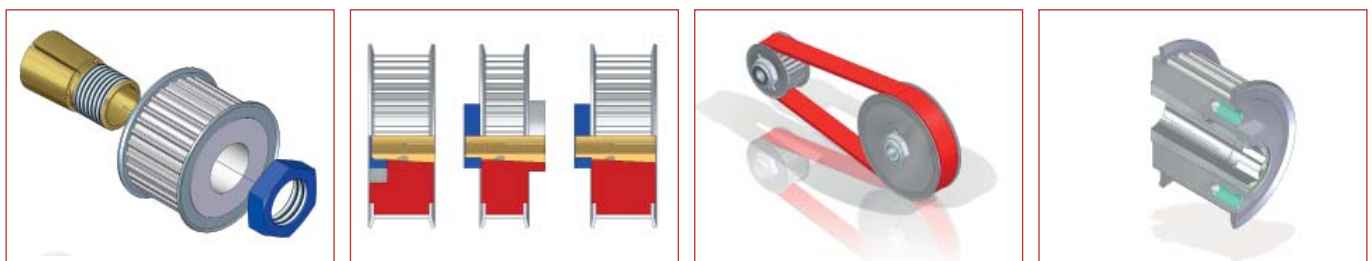
- 1) Values provided for the tightening torque of the nut for BOQA® fastening elements are recommended values only and lie within the lower third of the permissible range. Optimal tightening torque values for each case should be determined empirically, and should be stated explicitly in the assembly instructions.
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BOQA® fastening elements are available in various lengths based on commercially available belt pulley widths and customised designs.



Article-No.:	10125	10125-ISK	10126	10126-ISK	10127	10127-ISK
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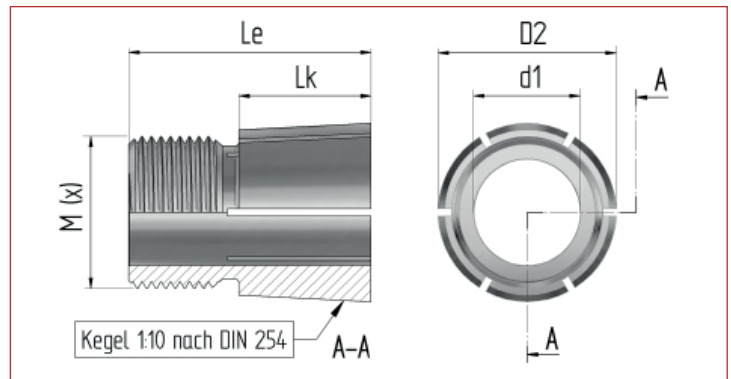
The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 1810 for shaft diameter = 10.00 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.:	10030	10030-ISK	10031	10031-ISK	10032	10032-ISK
for shaft diameters (d1)	10,00	10,00	10,00	10,00	10,00	10,00
Hub width (B) max.	16,00	16,00	22,00	22,00	30,00	30,00
Taper diameter front (D2)	18,10	18,10	18,10	18,10	18,10	18,10
Taper length (L _k)	10,00	10,00	15,70	15,70	24,40	24,40
Counter bearing, length	-	-	-	-	-	-
Counter bearing, diameter	-	-	-	-	-	-
Bore depth for shaft journal	-	-	-	-	-	-
Overall length (L _e)	21,90	21,90	27,60	27,60	36,90	36,90
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) M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1
Hex socket key width (SW)	-	10 mm	-	10 mm	-	10 mm

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

Thread (metric DIN)	M (x) M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1
Key width (SW)	mm 19	19	19	19	19	19
Nut height (m)	mm 5,00	5,00	5,00	5,00	5,00	5,00
Recommended tightening torque ¹⁾ Nm	28,00	28,00	38,00	38,00	48,00	48,00

Transmission Values ²⁾

Torque (M)	Nm 16,80	16,80	22,80	22,80	28,80	28,80
Thrust (F _e)	kN 1,28	1,28	1,76	1,76	2,28	2,28
Hub load (pF)	N/mm ² 34,49	34,49	30,80	30,80	26,34	26,34

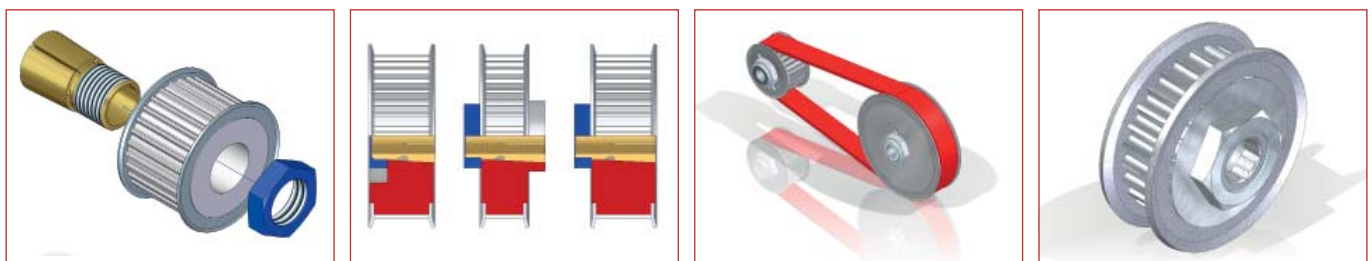
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BOQA® fastening elements are available in various lengths based on commercially available belt pulley widths and customised designs.



Article-No.:	10030	10030-ISK	10031	10031-ISK	10032	10032-ISK
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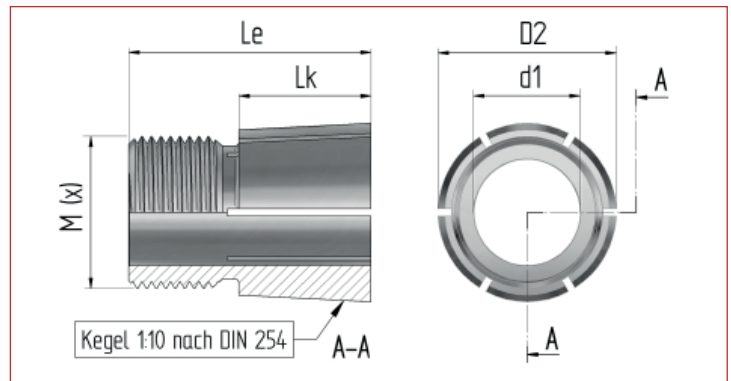
The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 1810 for shaft diameter = 11.00 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	: Cocentricity 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.:	10036	10036-ISK	10037	10037-ISK	10038	10038-ISK
for shaft diameters (d1)	mm 11,00	mm 11,00	mm 11,00	mm 11,00	mm 11,00	mm 11,00
Hub width (B) max.	mm 16,00	mm 16,00	mm 22,00	mm 22,00	mm 30,00	mm 30,00
Taper diameter front (D2)	mm 18,10	mm 18,10	mm 18,10	mm 18,10	mm 18,10	mm 18,10
Taper length (L _k)	mm 10,00	mm 10,00	mm 15,70	mm 15,70	mm 24,40	mm 24,40
Counter bearing, length	mm -	mm -	mm -	mm -	mm -	mm -
Counter bearing, diameter	mm -	mm -	mm -	mm -	mm -	mm -
Bore depth for shaft journal	mm -	mm -	mm -	mm -	mm -	mm -
Overall length (L _e)	mm 21,90	mm 21,90	mm 27,60	mm 27,60	mm 36,90	mm 36,90
Taper ratio (C)	C=1:x 1:10	C=1:x 1:10	C=1:x 1:10	C=1:x 1:10	C=1:x 1:10	C=1:x 1:10
Taper angle (α)	° 5,725	° 5,725	° 5,725	° 5,725	° 5,725	° 5,725
Thread (metric DIN)	M (x) M16 x 1	M (x) M16 x 1	M (x) M16 x 1	M (x) M16 x 1	M (x) M16 x 1	M (x) M16 x 1
Hex socket key width (SW)	mm -	mm 10 mm	mm -	mm 10 mm	mm -	mm 10 mm

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

Thread (metric DIN)	M (x) M16 x 1	M (x) M16 x 1	M (x) M16 x 1	M (x) M16 x 1	M (x) M16 x 1	M (x) M16 x 1
Key width (SW)	mm 19	mm 19	mm 19	mm 19	mm 19	mm 19
Nut height (m)	mm 5,00	mm 5,00	mm 5,00	mm 5,00	mm 5,00	mm 5,00
Recommended tightening torque ¹⁾ Nm	30,00	30,00	40,00	40,00	50,00	50,00

Transmission Values ²⁾

Torque (M)	Nm 18,00	Nm 18,00	Nm 24,00	Nm 24,00	Nm 30,00	Nm 30,00
Thrust (F _e)	kN 1,37	kN 1,37	kN 1,85	kN 1,85	kN 2,38	kN 2,38
Hub load (pF)	N/mm² 36,95	N/mm² 36,95	N/mm² 32,42	N/mm² 32,42	N/mm² 27,44	N/mm² 27,44

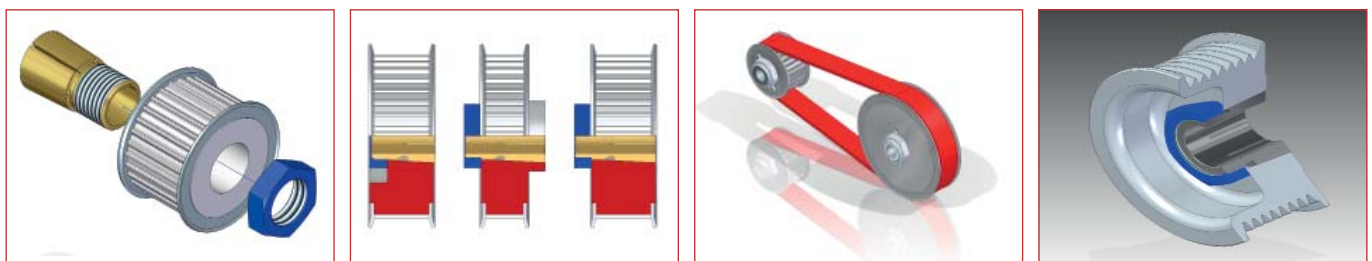
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BOQA® fastening elements are available in various lengths based on commercially available belt pulley widths and customised designs.



Article-No.:	10036	10036-ISK	10037	10037-ISK	10038	10038-ISK
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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.

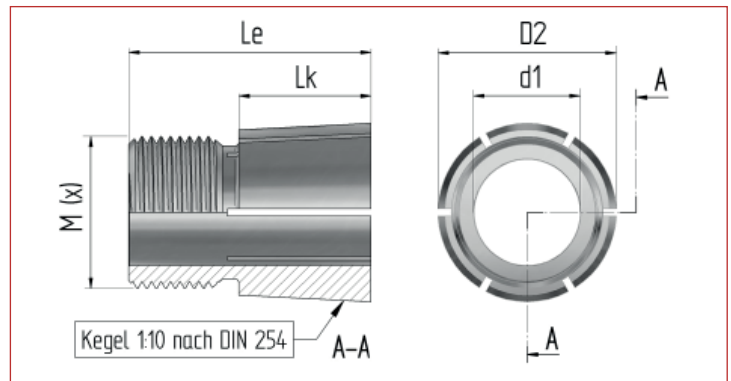


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BOQA® Fastening Elements product group 1810 for shaft diameter = 12.70 mm (1/2")

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.:	10042-12.7	10042-12.7-ISK	10043-12.7	10043-12.7-ISK	10044-12.7	10044-12.7-ISK
for shaft diameters (d1)	mm	12,70	12,70	12,70	12,70	12,70
Hub width (B) max.	mm	16,00	16,00	22,00	22,00	30,00
Taper diameter front (D2)	mm	18,10	18,10	18,10	18,10	18,10
Taper length (L _k)	mm	10,00	10,00	15,70	15,70	24,40
Counter bearing, length	mm	-	-	-	-	-
Counter bearing, diameter	mm	-	-	-	-	-
Bore depth for shaft journal	mm	-	-	-	-	-
Overall length (L _e)	mm	21,90	21,90	27,60	27,60	36,90
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
Thread (metric DIN)	M (x)	M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1
Hex socket key width (SW)	mm	-	10 mm	-	10 mm	-

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

Thread (metric DIN)	M (x)	M16 x 1	M16 x 1	M16 x 1	M16 x 1	M16 x 1
Key width (SW)	mm	19	19	19	19	19
Nut height (m)	mm	5,00	5,00	5,00	5,00	5,00
Recommended tightening torque ¹⁾	Nm	34,00	34,00	44,00	44,00	54,00

Transmission Values ²⁾

Torque (M)	Nm	20,40	20,40	26,40	26,50	32,40
Thrust (F _e)	kN	1,55	1,55	2,04	2,04	2,57
Hub load (pF)	N/mm²	41,88	41,88	35,67	35,67	29,64

- 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 (Re) 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.



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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.

