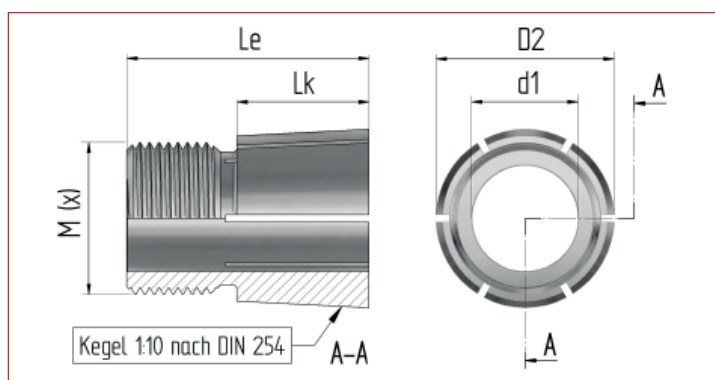


BOQA® Fastening Elements product group 1360 for shaft diameter = 5.00 mm

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.:	10136-5	10136-5-ISK	10137-5	10137-5-ISK	10138-5	10138-5-ISK
for shaft diameters (d1)	5,00	5,00	5,00	5,00	5,00	5,00
Hub width (B) max.	12,00	12,00	16,00	16,00	22,00	22,00
Taper diameter front (D2)	13,60	13,60	13,60	13,60	13,60	13,60
Taper length (L _k)	7,00	7,00	12,00	12,00	17,00	17,00
Counter bearing, length	-	-	-	-	-	-
Counter bearing, diameter	-	-	-	-	-	-
Bore depth for shaft journal	-	-	-	-	-	-
Overall length (L _e)	16,00	16,00	21,00	21,00	26,00	26,00
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)	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Hex socket key width (SW)	-	8 mm	-	8 mm	-	8 mm

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

Thread (metric DIN)	M (x)	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Key width (SW)	mm	15	15	15	15	15	15
Nut height (m)	mm	4,00	4,00	4,00	4,00	4,00	4,00
Recommended tightening torque ¹⁾ Nm		18,00	18,00	23,00	23,00	24,00	24,00

Transmission Values ²⁾

Torque (M)	Nm	10,80	10,80	13,80	13,80	14,40	14,40
Thrust (F _e)	kN	1,09	1,09	1,42	1,42	1,51	1,51
Hub load (pF)	N/mm ²	56,08	56,08	43,42	43,42	33,25	33,25

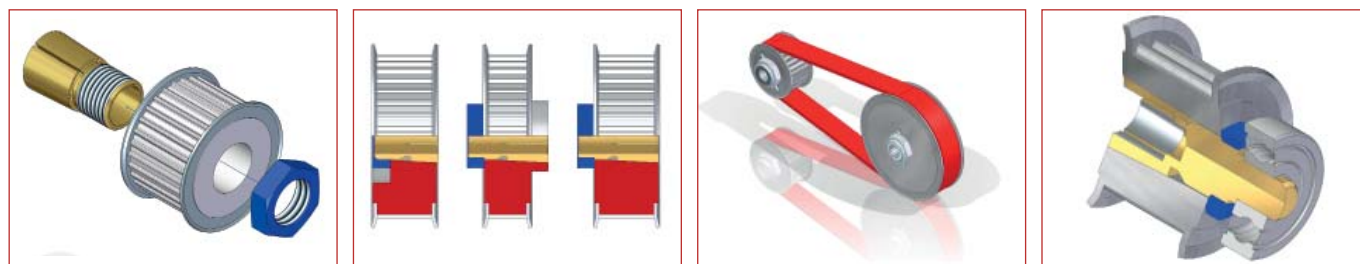
- Values provided for the tightening torque of the nut for BOQA® fastening elements are recommended values only and lie within the lower third of the permissible range. Optimal tightening torque values for each case should be determined empirically, and should be stated explicitly in the assembly instructions.
- 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.



Article-No.:	10136-5	10136-5-ISK	10137-5	10137-5-ISK	10138-5	10138-5-ISK
--------------	---------	-------------	---------	-------------	---------	-------------

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.

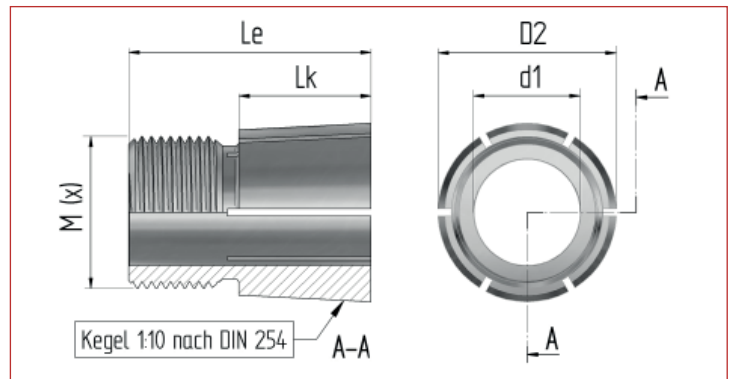


DBGM : 94 07 845 / 94 10 725
DBP : 44 16 292.8
bodaTec-Form-Nr.: boda2016.idd
© Georg F. Boda : bodaTec® GmbH 72645

BOQA® Fastening Elements product group 1360 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	: 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.:	10079	10079-ISK	10080	10080-ISK	10081	10081-ISK
for shaft diameters (d1)	mm 6,35	6,35	6,35	6,35	6,35	6,35
Hub width (B) max.	mm 12,00	12,00	16,00	16,00	22,00	22,00
Taper diameter front (D2)	mm 13,60	13,60	13,60	13,60	13,60	13,60
Taper length (L _k)	mm 7,00	7,00	12,00	12,00	17,00	17,00
Counter bearing, length	mm -	-	-	-	-	-
Counter bearing, diameter	mm -	-	-	-	-	-
Bore depth for shaft journal	mm -	-	-	-	-	-
Overall length (L _e)	mm 16,00	16,00	21,00	21,00	26,00	26,00
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) M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Hex socket key width (SW)	mm -	8 mm	-	8 mm	-	8 mm

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

Thread (metric DIN)	M (x) M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Key width (SW)	mm 15	15	15	15	15	15
Nut height (m)	mm 4,00	4,00	4,00	4,00	4,00	4,00
Recommended tightening torque ¹⁾ Nm	20,00	20,00	25,00	25,00	26,00	26,00

Transmission Values ²⁾

Torque (M)	Nm 12,00	12,00	15,00	15,00	15,60	15,60
Thrust (F _e)	kN 1,22	1,22	1,55	1,55	1,64	1,64
Hub load (pF)	N/mm² 62,31	62,31	47,20	47,20	36,02	36,02

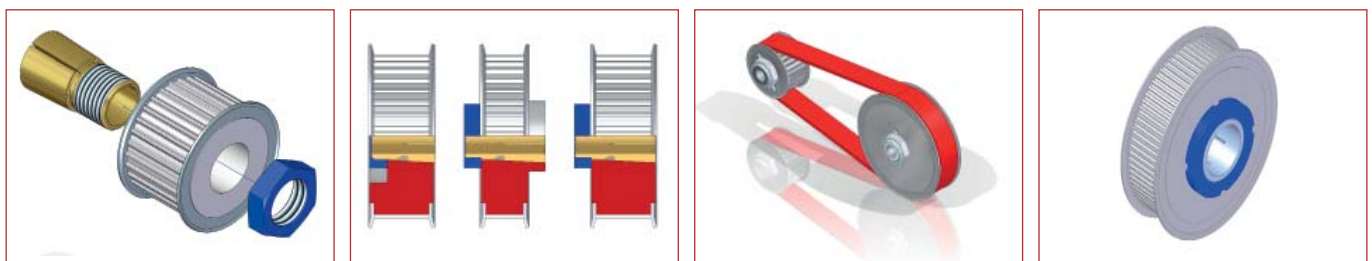
- 1) Values provided for the tightening torque of the nut for BOQA® fastening elements are recommended values only and lie within the lower third of the permissible range. Optimal tightening torque values for each case should be determined empirically, and should be stated explicitly in the assembly 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.:	10079	10079-ISK	10080	10080-ISK	10081	10081-ISK
--------------	-------	-----------	-------	-----------	-------	-----------

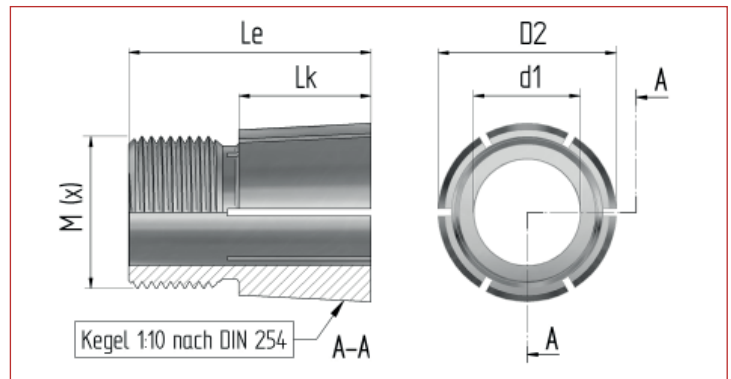
The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 1360 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	: Cocentricity 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.:	10150	10150-ISK	10151	10151-ISK	10152	10152-ISK
for shaft diameters ($d1$)	mm 7,00	7,00	7,00	7,00	7,00	7,00
Hub width (B) max.	mm 12,00	12,00	16,00	16,00	22,00	22,00
Taper diameter front (D2)	mm 13,60	13,60	13,60	13,60	13,60	13,60
Taper length (L_k)	mm 7,00	7,00	12,00	12,00	17,00	17,00
Counter bearing, length	mm -	-	-	-	-	-
Counter bearing, diameter	mm -	-	-	-	-	-
Bore depth for shaft journal	mm -	-	-	-	-	-
Overall length (L_e)	mm 16,00	16,00	21,00	21,00	26,00	26,00
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) M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Hex socket key width (SW)	mm -	8 mm	-	8 mm	-	8 mm

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

Thread (metric DIN)	M (x) M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Key width (SW)	mm 15	15	15	15	15	15
Nut height (m)	mm 4,00	4,00	4,00	4,00	4,00	4,00
Recommended tightening torque ¹⁾ Nm	21,00	21,00	26,00	26,00	27,00	27,00

Transmission Values ²⁾

Drehmoment (M)	Nm 12,60	12,60	15,60	15,60	16,30	16,30
Thrust (F_E)	kN 1,28	1,28	1,61	1,61	1,70	1,70
Hub load (p_F)	N/mm ² 65,42	65,42	49,09	49,09	37,41	37,41

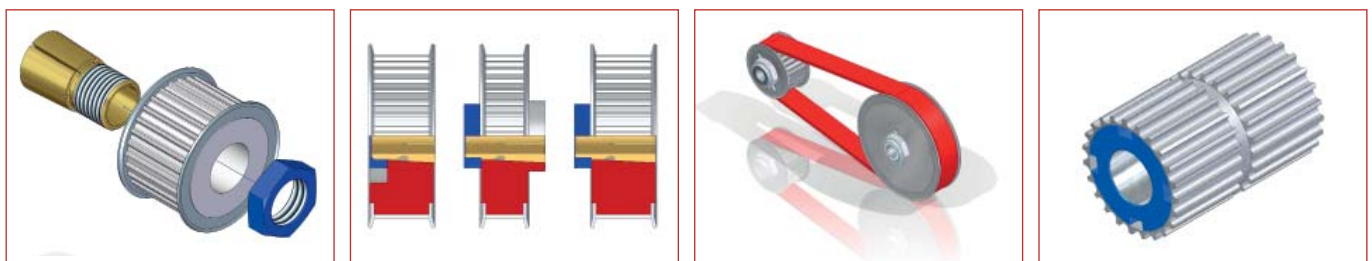
- 1) Values provided for the tightening torque of the nut for BOQA® fastening elements are recommended values only and lie within the lower third of the permissible range. Optimal tightening torque values for each case should be determined empirically, and should be stated explicitly in the assembly 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 (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.:	10150	10150-ISK	10151	10151-ISK	10152	10152-ISK
--------------	-------	-----------	-------	-----------	-------	-----------

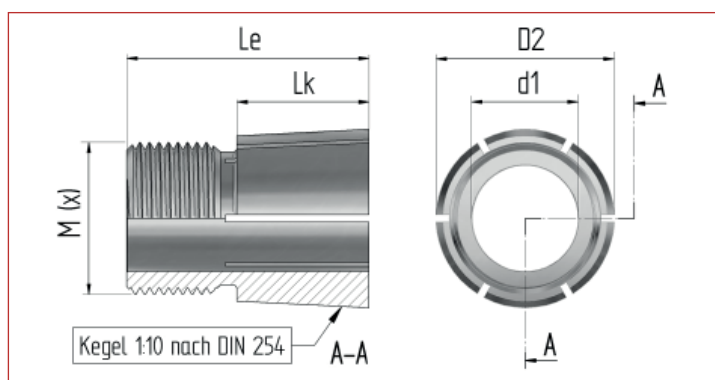
The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 1360 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	: 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.:	10160	10160-ISK	10161	10161-ISK	10162	10162-ISK
for shaft diameters (d1)	mm 8,00	8,00	8,00	8,00	8,00	8,00
Hub width (B) max.	mm 12,00	12,00	16,00	16,00	22,00	22,00
Taper diameter front (D2)	mm 13,60	13,60	13,60	13,60	13,60	13,60
Taper length (L _k)	mm 7,00	7,00	12,00	12,00	17,00	17,00
Counter bearing, length	mm -	-	-	-	-	-
Counter bearing, diameter	mm -	-	-	-	-	-
Bore depth for shaft journal	mm -	-	-	-	-	-
Overall length (L _e)	mm 16,00	16,00	21,00	21,00	26,00	26,00
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) M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Hex socket key width (SW)	mm -	8 mm	-	8 mm	-	8 mm

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

Thread (metric DIN)	M (x) M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Key width (SW)	mm 15	15	15	15	15	15
Nut height (m)	mm 4,00	4,00	4,00	4,00	4,00	4,00
Recommended tightening torque ¹⁾ Nm	24,00	24,00	27,00	27,00	28,00	28,00

Transmission Values ²⁾

Torque (M)	Nm 14,40	14,40	16,30	16,30	16,90	16,90
Thrust (F _e)	kN 1,46	1,46	1,67	1,67	1,77	1,77
Hub load (pF)	N/mm² 74,77	74,77	50,97	50,97	38,79	38,79

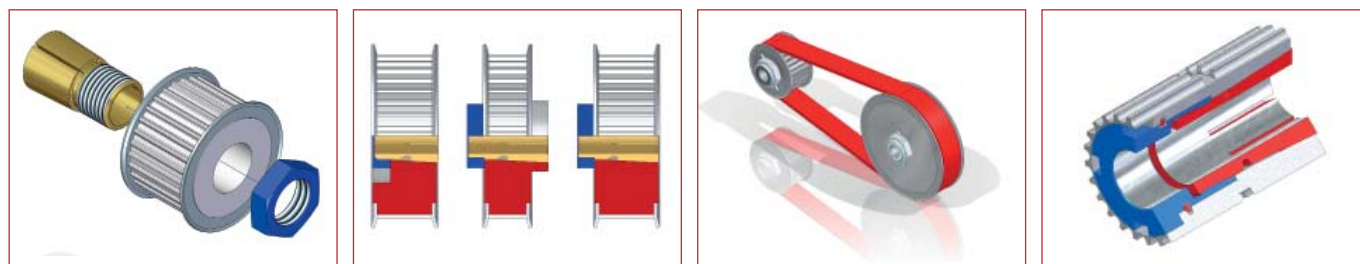
- 1) Values provided for the tightening torque of the nut for BOQA® fastening elements are recommended values only and lie within the lower third of the permissible range. Optimal tightening torque values for each case should be determined empirically, and should be stated explicitly in the assembly 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.:	10160	10160-ISK	10161	10161-ISK	10162	10162-ISK
--------------	-------	-----------	-------	-----------	-------	-----------

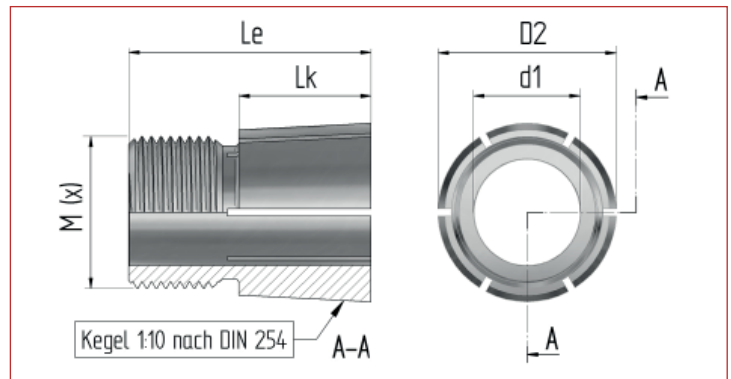
The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 1360 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	: Cocentricity 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.:	10160-9	10160-9-ISK	10161-9	10161-9-ISK	10162-9	10162-9-ISK
for shaft diameters ($d1$)	mm 9,00	9,00	9,00	9,00	9,00	9,00
Hub width (B) max.	mm 12,00	12,00	16,00	16,00	22,00	22,00
Taper diameter front (D2)	mm 13,60	13,60	13,60	13,60	13,60	13,60
Taper length (L_k)	mm 7,00	7,00	12,00	12,00	17,00	17,00
Counter bearing, length	mm -	-	-	-	-	-
Counter bearing, diameter	mm -	-	-	-	-	-
Bore depth for shaft journal	mm -	-	-	-	-	-
Overall length (L_e)	mm 16,00	16,00	21,00	21,00	26,00	26,00
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) M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Hex socket key width (SW)	mm -	8 mm	-	8 mm	-	8 mm

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

Thread (metric DIN)	M (x) M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Key width (SW)	mm 15	15	15	15	15	15
Nut height (m)	mm 4,00	4,00	4,00	4,00	4,00	4,00
Recommended tightening torque ¹⁾ Nm	25,00	25,00	28,00	28,00	29,00	29,00

Transmission Values ²⁾

Torque (M)	Nm 15,00	15,00	16,90	16,90	17,50	17,50
Thrust (F_E)	kN 1,52	1,52	1,73	1,73	1,83	1,83
Hub load (p_F)	N/mm ² 77,89	77,89	52,86	52,86	40,18	40,18

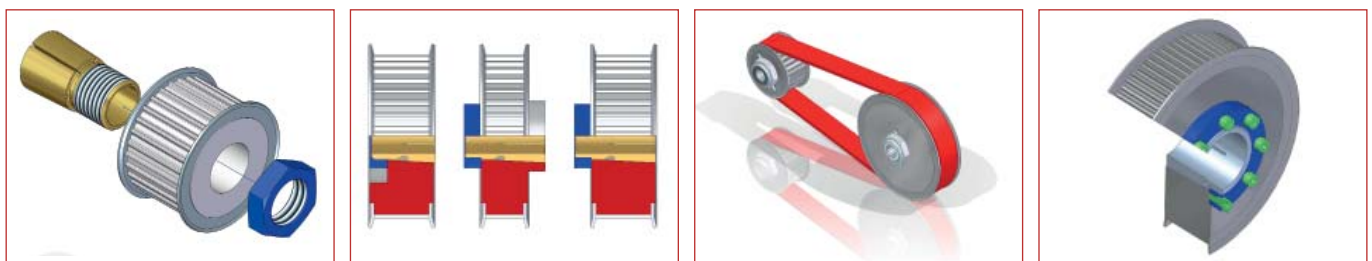
- Values provided for the tightening torque of the nut for BOQA® fastening elements are recommended values only and lie within the lower third of the permissible range. Optimal tightening torque values for each case should be determined empirically, and should be stated explicitly in the assembly instructions.
- 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.:	10160-9	10160-9-ISK	10161-9	10161-9-ISK	10162-9	10162-9-ISK
--------------	---------	-------------	---------	-------------	---------	-------------

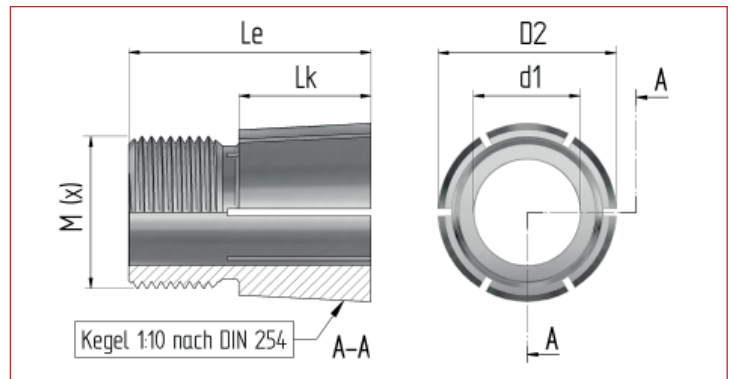
The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 1360 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	: 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.:	10160-10	10160-10-ISK	10161-10	10161-10-ISK	10162-10	10162-10-ISK
for shaft diameters (d1)	mm 9,00	9,00	9,00	9,00	9,00	9,00
Hub width (B) max.	mm 12,00	12,00	16,00	16,00	22,00	22,00
Taper diameter front (D2)	mm 13,60	13,60	13,60	13,60	13,60	13,60
Taper length (L _k)	mm 7,00	7,00	12,00	12,00	17,00	17,00
Counter bearing, length	mm -	-	-	-	-	-
Counter bearing, diameter	mm -	-	-	-	-	-
Bore depth for shaft journal	mm -	-	-	-	-	-
Overall length (L _e)	mm 16,00	16,00	21,00	21,00	26,00	26,00
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) M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Hex socket key width (SW)	mm -	8 mm	-	8 mm	-	8 mm

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

Thread (metric DIN)	M (x) M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Key width (SW)	mm 15	15	15	15	15	15
Nut height (m)	mm 4,00	4,00	4,00	4,00	4,00	4,00
Recommended tightening torque ¹⁾ Nm	26,00	26,00	29,00	29,00	30,00	30,00

Transmission Values ²⁾

Torque (M)	Nm 15,60	15,60	17,50	17,50	18,10	18,10
Thrust (F _E)	kN 1,58	1,58	1,80	1,80	1,89	1,89
Hub load (pF)	N/mm² 81,00	81,00	54,75	54,75	41,56	41,56

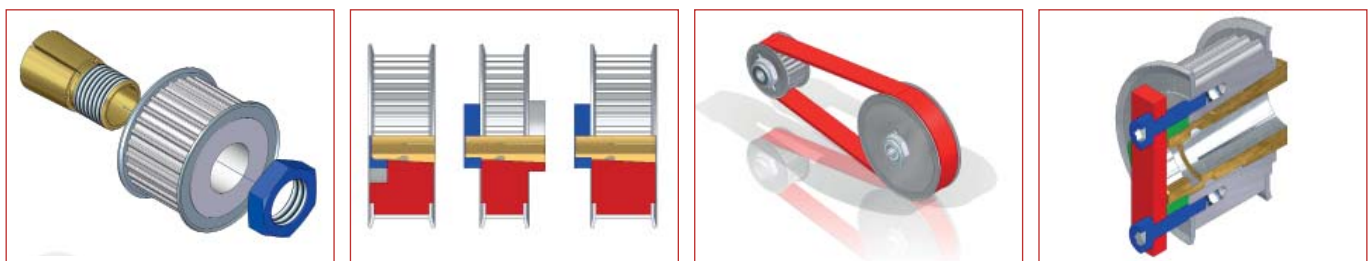
- 1) Values provided for the tightening torque of the nut for BOQA® fastening elements are recommended values only and lie within the lower third of the permissible range. Optimal tightening torque values for each case should be determined empirically, and should be stated explicitly in the assembly 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.:	10160-10	10160-10-ISK	10161-10	10161-10-ISK	10162-10	10162-10-ISK
--------------	----------	--------------	----------	--------------	----------	--------------

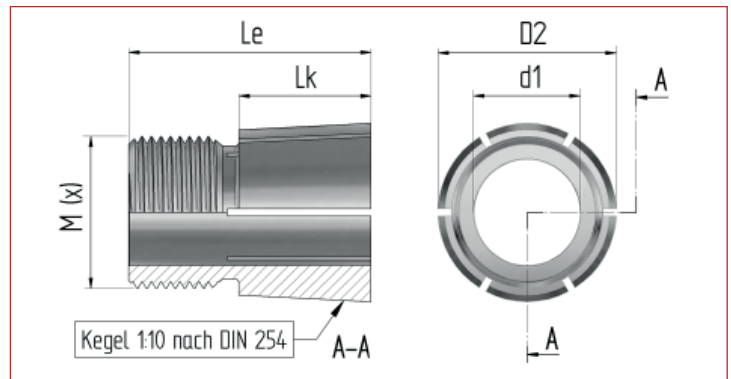
The use of BOQA® fastening elements offers a series of alternatives for complex shaft-to-hub connections with a significant impact on easier assembly/disassembly, reliability and longevity of drive components.



BOQA® Fastening Elements product group 1360 (special solutions)

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	: $R_a = 3,2 \mu\text{m}$ (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.:	10079-ma	10160-ma	10161-10skr	10161-10skr-ISK	
for shaft diameters (d1)	mm	6,35	8,00	10,00	10,00
Hub width (B) max	mm	11,00	11,00	16,00	16,00
Taper diameter front (D2).....	mm	13,60	13,60	13,60	13,60
Taper length (L _k)	mm	6,50	6,50	10,50	10,50
Counter bearing, length.....	mm	-	-	-	-
Counter bearing, diameter.....	mm	-	-	-	-
Bore depth for shaft journal	mm	-	-	-	-
Overall length (L _e)	mm	14,00	14,00	18,50	18,50
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)	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Hex socket key width (SW)	mm	-	8 mm	-	8 mm

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

Thread (metric DIN)	M (x)	M12 x 1	M12 x 1	M12 x 1	M12 x 1
Key width (SW)	mm	15	15	15	15
Nut height (m)	mm	4,00	4,00	4,00	4,00
Recommended tightening torque ¹⁾	Nm	19,00	22,00	28,00	28,00

Transmission Values ²⁾

Torque (M)	Nm	11,40	13,20	16,90	16,90
Thrust (F_e)	kN	1,15	1,33	1,73	1,73
Hub load (p_F)	N/mm ²	63,51	73,53	57,23	57,23

- 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 (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.:	10079-ma	10160-ma	10161-10skr	10161-10skr-ISK
---------------------	----------	----------	-------------	-----------------

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.

