COMBINATION KNOBS

Order data **on pages 194-199**

OKW GEHÄUSE SYSTEME

WELL ADJUSTED

THE PRODUCT

The name COMBINATION KNOBS stands for an exceedingly functional range of rotary buttons with a reliable collet fixture system.

They offer a versatile range of possible applications as round knobs, wing knobs and spindle-shaped knobs with a large selection of accessories.

YOUR ADVANTAGE

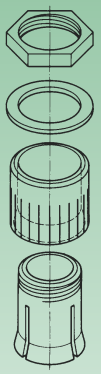
Tried and tested collet fixture system. Convenient assembly of knobs from the front, easy adjusting (by means of an adjusting key, see accessory). Tight fitting of knobs on the axis.

Round, wing and spindle-shaped knobs with the same standardised design and with matt surface.

A large variety of functional accessories, e.g. covers in different colours and transparent dials. Easy push-on assembly.

Sizes (mm)
ø 9, ø 10, ø 13,5, ø 16, ø 20, ø 23, ø 31, ø 40, ø 50 (depends on type)

Fastening
with collet fixture system for rotary potentiometer with shaft ends corresponding to DIN 41591



detailed drawings see our website
www.okw.com

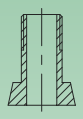
COMBINATION KNOBS

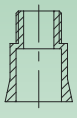
Order data **on pages 194-199**

OKW GEHÄUSE SYSTEME

FUNCTIONAL DESIGN

Sizes 10 and 13 have blind holes and screw fixing. From knob size 23 up through holes ① (sizes 16 + 20 stepped ②, except for axes 4 mm).

① 

② 

YOUR ADVANTAGE

Torsion protection for axes 6/4.6 mm available as accessory. Suitable for round and wing knobs sizes ø 20 to 50 mm with 6 mm borehole.

We also produce our COMBINATION KNOBS in special colours, moq reserved. Please advise us of the colour and quantity you require.

APPLICATIONS

Well-proven for electro-mechanical rotary potentiometers with shaft ends corresponding to DIN 41591, e.g. within the field of measuring, controlling, regulating.

COMBINATION KNOBS

Information **on pages 104-105**

OKW GEHÄUSE SYSTEME

ROUND KNOB

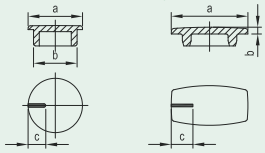
ABS (UL 94 HB)

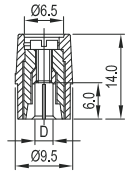
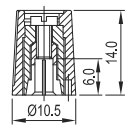
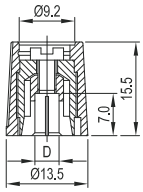
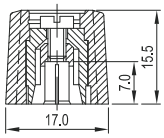
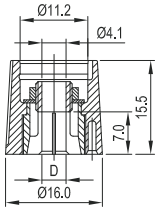
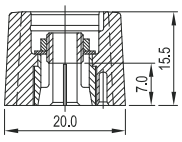
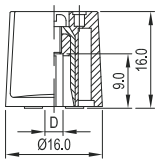
WING KNOB

SPINDLE-SHAPED KNOB

COVER

ABS (UL 94 HB)
...100 = indicator line white, otherwise in black

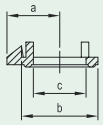
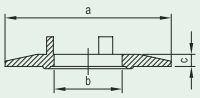
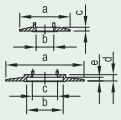
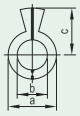
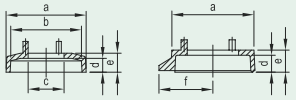


Knob ø	Shape		Borehole D						without indicator line	with indicator line
9		**ROUND KNOB**	4 mm, with chamfer		A 26 09 040			a = 8.0 b = 6.5 c = 2.6	A 41 10 000	A 41 10 100
									A 41 10 002	A 41 10 102
									A 41 10 004	A 41 10 104
									A 41 10 005	A 41 10 105
									A 41 10 006	A 41 10 106
									A 41 10 007	
									A 41 10 008	A 41 10 108
10		**ROUND KNOB**	3 mm, with chamfer	A 25 10 030	A 26 10 030	A 25 10 038	A 26 10 038			
			1/8", with chamfer	A 25 10 320	A 26 10 320					
			4 mm, with chamfer	A 25 10 040	A 26 10 040	A 25 10 048	A 26 10 048			
13.5		**ROUND KNOB**	4 mm, with chamfer	A 25 13 040	A 26 13 040	A 25 13 048	A 26 13 048	a = 11.2 b = 9.2 c = 3.0	A 41 13 000	A 41 13 100
			6 mm, with chamfer	A 25 13 060	A 26 13 060	A 25 13 068	A 26 13 068		A 41 13 002	A 41 13 102
									A 41 13 004	A 41 13 104
									A 41 13 005	A 41 13 105
									A 41 13 006	A 41 13 106
									A 41 13 007	A 41 13 107
									A 41 13 008	A 41 13 108
		**WING KNOB**	6 mm, with chamfer		A 28 13 060					
16		**ROUND KNOB**	4 mm, without chamfer	A 25 16 040	A 26 16 040			a = 13.5 b = 11.2 c = 4.0	A 41 16 000	A 41 16 100
			6 mm, with chamfer	A 25 16 060	A 26 16 060	A 25 16 068	A 26 16 068		A 41 16 002	A 41 16 102
			1/4", with chamfer	A 25 16 630	A 26 16 630	A 25 16 638			A 41 16 004	
									A 41 16 005	
									A 41 16 006	A 41 16 106
									A 41 16 007	A 41 16 107
									A 41 16 008	A 41 16 108
		**WING KNOB**	6 mm, with chamfer		A 28 16 060					
		**SPINDLE-SHAPED KNOB**	3 mm, with chamfer		A 24 16 030			a = 14.0 b = 1.2 c = 4.0	A 50 16 000	A 50 16 100
			4 mm, with chamfer	A 23 16 040	A 24 16 040		A 24 16 048			A 50 16 108



COMBINATION KNOBS

Information **on pages 104-105**

ARROW DISK	DISK	DIAL	STATOR	NUT COVER
ABS (UL 94 HB)	ABS ...010 = indicator line white	Polycarbonate ...0 = symbols black ...9 = symbols silver	Aluminium indicator line black	ABS ...010 = indicator line white ...018 = indicator line black
				
				
				
a = 7.0 b = 10.1 c = 7.0		a = 20.0 b = 7.0 c = 1.5 (only for knob ø 10)		a = 15.5 b = 14.0 c = 7.0 d = 2.9 e = 3.7 (only for knob ø 10)
A 42 10 000		A 44 10 060		A 75 10 000
A 42 10 002				
A 42 10 008				
				A 75 10 010
				A 75 10 018
a = 9.0 b = 13.6 c = 8.0		a = 26.0 b = 8.0 c = 1.5		a = 17.5 b = 15.7 c = 9.0 d = 3.2 e = 4.3
A 42 13 000		A 44 13 010		A 75 13 000
A 42 13 002		A 44 13 020		
A 42 13 008		A 44 13 049		
		A 44 13 060		
				A 75 13 010
				A 75 13 018
a = 10.5 b = 16.3 c = 10.0	a = 31.0 b = 16.5 c = 1.3	a = 31.0 b = 14.5 c = 10.0 d = 2.5 e = 1.7 (ø 16 with moulded on nut cover	a = 16.0 b = 10.1 c = 15.5	a = 19.3 b = 17.6 c = 10.0 d = 3.3 e = 4.3 a = 16.4 b = 14.6 c = 10.0 d = 3.3 e = 4.3 f = 10.2
A 42 16 000	A 73 16 000	A 44 16 001	A 60 16 019	A 75 16 000
A 42 16 002		A 44 16 010		
A 42 16 008		A 44 16 020		A 76 16 000
		A 44 16 060		A 76 16 008
	A 73 16 010			A 75 16 010
				A 75 16 018
				a = 16.0 b = 14.8 c = 8.3 d = 3.3 e = 4.3
				A 51 16 000

descriptions of standard colours see **page 199**

COMBINATION KNOBS

Information **on pages 104-105**

OKW GEHÄUSE SYSTEME

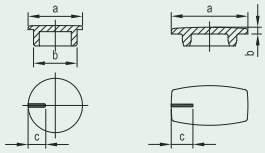
ROUND KNOB

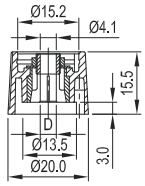
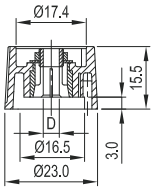
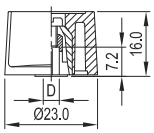
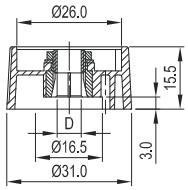
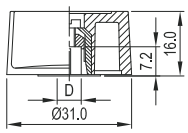
ABS (UL 94 HB)

SPINDLE-SHAPED KNOB

COVER

ABS (UL 94 HB)
...100 = indicator line white, otherwise in black



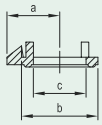
Knob ø	Shape		Borehole D					without indicator line	with indicator line
20		**ROUND KNOB**	4 mm, without chamfer	A 25 20 040	A 26 20 040			a = 17.5 b = 15.2 c = 5.5	A 41 20 000	A 41 20 100
			6 mm, with chamfer	A 25 20 060	A 26 20 060	A 25 20 068	A 26 20 068		A 41 20 002	A 41 20 102
			1/4", with chamfer	A 25 20 630						A 41 20 104
									A 41 20 005	
									A 41 20 006	A 41 20 106
									A 41 20 007	A 41 20 107
									A 41 20 008	A 41 20 108
23		**ROUND KNOB**	4 mm, without chamfer	A 25 23 040	A 26 23 040			a = 20.4 b = 17.4 c = 6.5	A 41 23 000	A 41 23 100
			6 mm, without chamfer	A 25 23 060	A 26 23 060	A 25 23 068	A 26 23 068		A 41 23 002	A 41 23 102
			1/4", without chamfer	A 25 23 630		A 25 23 638			A 41 23 004	
										A 41 23 105
									A 41 23 006	A 41 23 106
									A 41 23 007	A 41 23 107
									A 41 23 008	A 41 23 108
		**SPINDLE-SHAPED KNOB**	4 mm, with chamfer		A 24 23 040			a = 20.9 b = 1.2 c = 6.5	A 50 23 000	A 50 23 100
			6 mm, with chamfer		A 24 23 060		A 24 23 068		A 50 23 008	A 50 23 108
31		**ROUND KNOB**	6 mm, without chamfer	A 25 31 060	A 26 31 060	A 25 31 068	A 26 31 068	a = 28.4 b = 26.0 c = 9.0	A 41 31 000	A 41 31 100
			1/4", without chamfer	A 25 31 630					A 41 31 002	A 41 31 102
									A 41 31 005	
									A 41 31 006	
									A 41 31 007	
									A 41 31 008	A 41 31 108
		**SPINDLE-SHAPED KNOB**	6 mm, with chamfer		A 24 31 060		A 24 31 068	a = 29.0 b = 1.4 c = 9.5	A 50 31 000	A 50 31 100
										A 50 31 107
									A 50 31 008	A 50 31 108

COMBINATION KNOBS

Information **on pages 104-105**

ARROW DISK

ABS (UL 94 HB)



a = 13.0
b = 20.0
c = 12.0

- A 42 20 000
- A 42 20 002
- A 42 20 008

a = 14.3
b = 23.0
c = 16.5

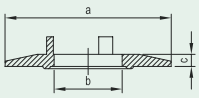
- A 42 23 000
- A 42 23 002
- A 42 23 008

a = 19.5
b = 31.0
c = 16.5

- A 42 31 000
- A 42 31 002
- A 42 31 008

DISK

ABS
...010 = indicator line white



a = 31.0
b = 16.5
c = 1.3

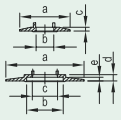
- A 73 23 010

a = 40.0
b = 16.5
c = 1.6

- A 73 31 000
- A 73 31 010

DIAL

Polycarbonate
...0 = symbols black
...9 = symbols silver



a = 36.0
b = 12.0
c = 1.5

- A 44 20 001
- A 44 20 010
- A 44 20 060

a = 40.0
b = 16.3
c = 1.3

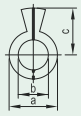
- A 44 23 010
- A 44 23 020
- A 44 23 039
- A 44 23 060

a = 49.9
b = 16.5
c = 1.5

- A 44 31 010
- A 44 31 060

STATOR

Aluminium
indicator line black



a = 20.0
b = 10.1
c = 18.0

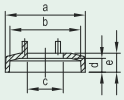
- A 60 20 019

a = 23.0
b = 10.2
c = 20.0

- A 60 23 019

NUT COVER

ABS



a = 23.3
b = 20.0
c = 13.7
d = 3.3
e = 4.3

- A 51 23 000
- A 51 23 008

a = 31.1
b = 28.0
c = 15.5
d = 3.3
e = 4.8

- A 51 31 000
- A 51 31 008

descriptions of standard colours see **page 199**

COMBINATION KNOBS

Information **on pages 104-105**

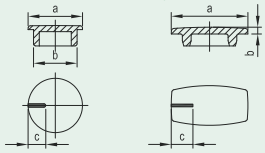
OKW GEHÄUSE SYSTEME

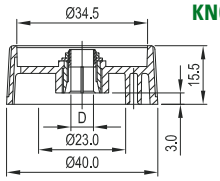
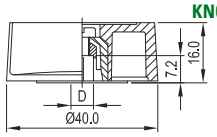
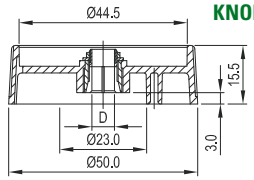
ROUND KNOB / SPINDLE-SHAPED KNOB

ABS (UL 94 HB)

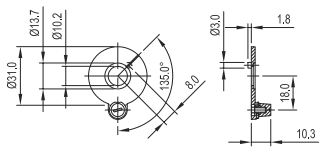
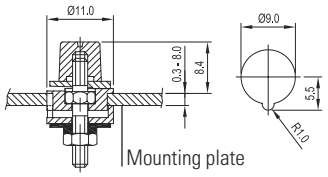
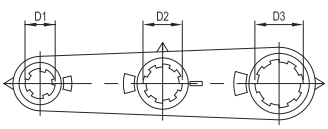
COVER

ABS (UL 94 HB)
...100 = indicator line white, otherwise in black



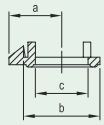
Knob ø	Shape		Borehole D					without indicator line	with indicator line
40		**ROUND KNOB**	6 mm, without chamfer	A 25 40 060	A 26 40 060	A 25 40 068	A 26 40 068	a = 37.4 b = 34.4 c = 12.5	A 41 40 000 A 41 40 002 A 41 40 007 A 41 40 008	A 41 40 100
			8 mm, without chamfer	A 25 40 080						
		**SPINDLE-SHAPED KNOB**	6 mm, with chamfer		A 24 40 060		A 24 40 068	a = 37.9 b = 1.6 c = 13.0	A 50 40 000 A 50 40 008	A 50 40 100 A 50 40 108
50		**ROUND KNOB**	6 mm, without chamfer	A 25 50 060	A 26 50 060	A 25 50 068		a = 47.4 b = 44.4 c = 14.5	A 41 50 000 A 41 50 008	A 41 50 100 A 41 50 107

ACCESSORIES FOR ROUND KNOBS / WING KNOBS AND SPINDLE-SHAPED KNOBS / COM-KNOBS

Article		Version / Application	Dim. in mm	Part-No.
	Locking device with stator	For round knobs and wing knobs size 16 with dial only. Transparent, marking black.		A 61 16 010
	Locking device	For universal use of round knobs, wing knobs and COM-KNOBS with dial.		A 61 00 000
	Adjusting key	For correct adjusting of combination knobs (round knobs) with indicator line, dial and arrow disk. Knob mounting without difficulties.		Round knobs ø D1 D2 D3 10 13.5 16 A 64 02 005 20 23 31 A 64 03 005

ARROW DISK

ABS (UL 94 HB)



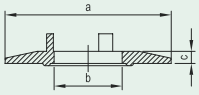
a = 24.5
b = 40.0
c = 25.0

A 42 40 000

A 42 40 008

DISK

ABS
...010 = indicator line white

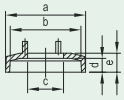


a = 50.1
b = 24.0
c = 1.8

A 73 40 010

NUT COVER

ABS



a = 40.3
b = 36.8
c = 20.0
d = 3.1
e = 4.6

A 51 40 000

Standard colours knobs

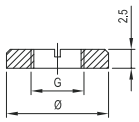
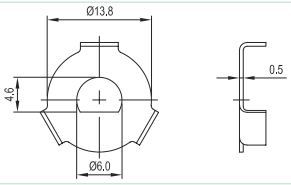
Combination knobs
- Black, RAL 9005
- Dust grey, RAL 7037

Covers (depends on size/type)
- Black, RAL 9005
- Red, RAL F12/0-10
- Yellow, RAL F12/0-1
- Green, RAL F12/0-43
- Blue, RAL 5012
- Pebble grey, RAL 7032
- Dust grey, RAL 7037

Arrow disk
- Black, RAL 9005
- Red, RAL F12/0-10
- Dust grey, RAL 7037

Dial
- Transparent, bright surface with/without symbols

ACCESSORIES FOR ROUND KNOBS / WING KNOBS AND SPINDLE-SHAPED KNOBS / COM-KNOBS

Article		Version / Application	Dim. in mm	Part-No.
	Round nut	For mounting of potentiometer at front panels. It fits under knob and nut cover (round knobs / wing knobs / spindle-shaped knobs / COM-KNOBS ø 10 / 13.5 / 16 / 20 / 23 / 31 / 40 / 50).		G / ø M7 x 0.75 / 13.5 — A 62 07 009 M10 x 0.75 / 12.5 — A 62 10 009 3/8" - 32G / 12.5 — A 62 95 009
	Spanner	For tightening round nuts.		A 63 00 000
	Torsion protection	For torsion-proved mounting of knobs on profiled axes 6 / 4.6 mm. Suitable for round and wing knobs sizes ø 20 to 50 with 6 mm borehole (not suitable for COM-KNOBS).		Bore 6 / 4.6 — A 66 00 064