



Combination knobs, Disk, Nut cover

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

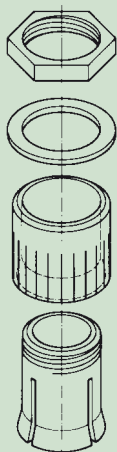
Black, RAL 9005 
Red, RAL F12/0-10 
Dust grey, RAL 7037 

Dial

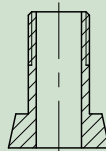
Transparent, bright surface
with/without symbols 

Stator

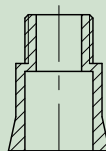
Aluminium, 
marking black



①



②



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.

APPLICATIONS

Well-proven for electro-mechanical rotary potentiometers with shaft ends corresponding to DIN 41 591.

Measuring and control technology, heating and air conditioning.

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 page 18). Tight fitting of knobs on the axis. Sizes 10 and 13 have blind holes and screw fixing. From knob size 23 up, through holes ① (sizes 16 + 20 steppt ②, except for axes 4 mm.

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

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

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

MATERIAL

Knobs, covers, arrow disks and nut covers: ABS (UL 94 HB).

Dials: Polycarbonate.

Stator: Al-sheet 0.5 mm

with self-adhesive film.

Please refer to specifications on page 29.

COMBINATION KNOBS

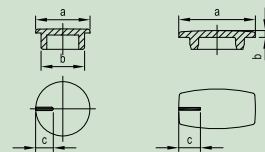


TYPES

Knob g	Torque (Nm)		ROUND KNOB		WING KNOB		SPINDLE-SHAPED KNOB	
	assembly	function	borehole		borehole		borehole	
9	0.4	0.4	4 mm		—		—	
10	0.4	0.4	3 mm		—		—	
	0.4	0.4	4 mm					
	0.4	0.4	1/8"					
13.5	0.5	0.5	4 mm		—		—	
	0.7	0.6	6 mm		6 mm			
16	0.5	0.5	—		—		3 mm	
	0.6	0.5	4 mm		—		4 mm	
	0.8	0.7	6 mm		6 mm		—	
	0.8	0.7	1/4"		—		—	
20	0.8	0.7	4 mm		—		—	
	1.0	0.9	6 mm		6 mm			
	1.0	0.9	1/4"		—			
23	1.0	0.8	4 mm		—		4 mm	
	1.2	1.0	6 mm				6 mm	
	1.2	1.0	1/4"				—	
31	1.8	1.6	6 mm		—		6 mm	
	1.8	1.6	1/4"				—	
40	2.5	1.6	6 mm		—		6 mm	
	2.8	1.8	8 mm				—	
50	3.0	1.8	6 mm		—		—	
	3.5	2.0	8 mm					

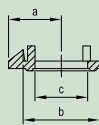
ROUND KNOB
WING KNOB
SPINDLE-SHAPED KNOB
COVER


...100 = indicator line white, otherwise in black



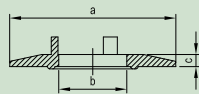
Knob Ø	Shape	Borehole D						without indicator line	with indicator line
9	 ROUND KNOB	4 mm, with chamfer	A 25 09 040	A 26 09 040			a = 8.0 b = 6.5 c = 2.6	- A 41 10 000 - A 41 10 002 - A 41 10 004 - A 41 10 005 - A 41 10 006 - A 41 10 007 - A 41 10 008	- A 41 10 100 - A 41 10 102 - A 41 10 104 - A 41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

ARROW DISK



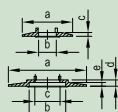
DISK

...010 = indicator line white



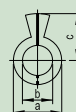
DIAL

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



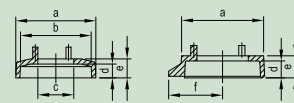
STATOR

indicator line black



NUT COVER

...010 = indicator line white
...018 = indicator line black



a = 7.0
b = 10.1
c = 7.0



A 42 10 000



A 42 10 002



A 42 10 008

a = 20.0
b = 7.0
c = 1.5



A 44 10 001



A 44 10 060

(only for knob ø 10)

a = 15.5
b = 14.0
c = 7.0
d = 2.9
e = 3.7



A 75 10 000



A 75 10 010

(only for knob ø 10)

A 75 10 018

a = 9.0
b = 13.6
c = 8.0



A 42 13 000



A 42 13 002



A 42 13 008

a = 26.0
b = 8.0
c = 1.5



A 44 13 010



A 44 13 020



A 44 13 039



A 44 13 049



A 44 13 060

a = 17.5
b = 15.7
c = 9.0
d = 3.2
e = 4.3



A 75 13 000



A 75 13 010

A 75 13 018

a = 10.5
b = 16.3
c = 10.0



A 42 16 000



A 42 16 002



A 42 16 008

a = 23.0
b = 10.0
c = 1.3



A 73 16 000

A 73 16 010

a = 31.0
b = 14.5
c = 10.0
d = 2.5
e = 1.7



A 44 16 001



A 44 16 010



A 44 16 020



A 44 16 039



A 44 16 049



A 44 16 059



A 44 16 060

(ø 16 with moulded-on nut cover)

a=16.0
b=10.1
c=15.5

A 60 16 019

a = 19.3
b = 17.6
c = 10.0
d = 3.3
e = 4.3



A 75 16 000



A 75 16 010

A 75 16 018

a = 16.4
b = 14.6
c = 10.0
d = 3.3
e = 4.3
f = 10.2



A 76 16 000



A 76 16 008

a = 16.0
b = 14.8
c = 8.3
d = 3.3
e = 4.3



A 51 16 000



A 51 16 008

RUNDKNOPF

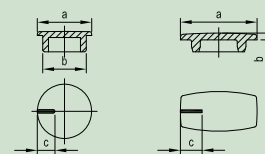
FLÜGELKNOPF

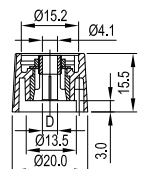
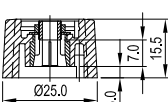
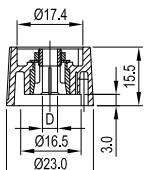
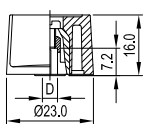
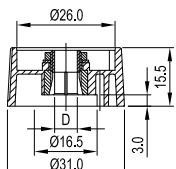
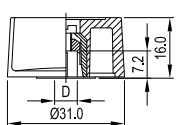
KNEBELKNOPF

DECKEL



...100 = Markierung weiß, ansonsten schwarz



Größe Ø	Knopfform	Achsbohrung D						ohne Markierung	mit Markierung
20	RUND- KNOPF 	4 mm, durchgehend	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, abgesetzt	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", abgesetzt	A 25 20 630					 A 41 20 004	A 41 20 104
	FLÜGEL- KNOPF 	6 mm, abgesetzt	A 27 20 060					 A 41 20 005	A 41 20 106
23	RUND- KNOPF 	4 mm, durchgehend	A 25 23 040	A 26 23 040	A 25 23 048		a = 20,4 b = 17,4 c = 6,5	 A 41 23 000	A 41 23 100
		6 mm, durchgehend	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", durchgehend	A 25 23 630		A 25 23 638			 A 41 23 004	A 41 23 104
	KNEBEL- KNOPF 	4 mm, abgesetzt		A 24 23 040			a = 20,9 b = 1,2 c = 6,5	 A 50 23 000	A 50 23 100
		6 mm, abgesetzt		A 24 23 060		A 24 23 068		 A 50 23 008	A 50 23 108
31	RUND- KNOPF 	6 mm, durchgehend	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", durchgehend	A 25 31 630					 A 41 31 002	A 41 31 102
								 A 41 31 005	
	KNEBEL- KNOPF 	6 mm, abgesetzt		A 24 31 060		A 24 31 068	a = 29,0 b = 1,4 c = 9,5	 A 41 31 006	
								 A 41 31 007	A 41 31 108
								 A 41 31 008	
								 A 50 31 000	A 50 31 100
								 A 50 31 008	A 50 31 107
									A 50 31 108

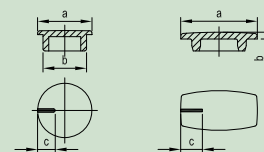
RUNDKNOPF

KNEBELKNOPF

DECKEL

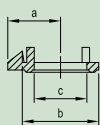


...100 = Markierung weiß, ansonsten schwarz



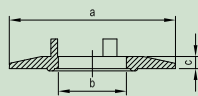
Größe Ø	Knopfform	Achsbohrung D						ohne Markierung	mit Markierung
40	RUND- KNOPF 	6 mm, durchgehend	A 25 40 060	A 26 40 060	A 25 40 068	A 26 40 068	a = 37,4	● A 41 40 000	A 41 40 100
		8 mm, durchgehend	A 25 40 080	A 26 40 080			b = 34,4 c = 12,5	● A 41 40 002 ● A 41 40 007 ● A 41 40 008	A 41 40 102 A 41 40 108
50	KNEBEL- KNOPF 	6 mm, abgesetzt		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	RUND- KNOPF 	6 mm, durchgehend	A 25 50 060	A 26 50 060	A 25 50 068		a = 47,4	● A 41 50 000	A 41 50 100
		8 mm, durchgehend	A 25 50 080				b = 44,4 c = 14,5	● A 41 50 007 ● A 41 50 008	A 41 50 107 A 41 50 108

PFEILSCHEIBE



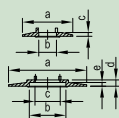
SCHEIBE

...010 = Markierung weiß



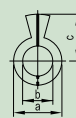
SKALENSCHEIBE

...0 = Symbole schwarz
...9 = Symbole silber

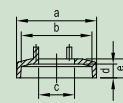


STATOR

Markierung
schwarz



MUTTERABDECKUNG



a = 24,5
b = 40,0
c = 25,0



A 42 40 000



A 42 40 008

a = 50,1
b = 24,0
c = 1,8



A 73 40 000

A 73 40 010

a = 61,0
b = 24,0
c = 1,9



A 44 40 001

a = 40,3
b = 36,8
c = 20,0
d = 3,1
e = 4,6



A 51 40 000



A 51 40 008

FÜR RUND- / FLÜGEL- / KNEBELKNÖPFE / COM-KNOBS

Bestell-Nummer	Artikel	Ausführung / Verwendung	Maße in mm	Abbildung
A 61 16 010	Feststeller mit Stator	Nur für Rund- und Flügelknöpfe Größe 16 mit Skalenscheibe. Glasklar, Markierung schwarz.		
A 61 00 000	Feststeller	Universell für Rund- und Flügelknöpfe sowie COM-KNOBS mit Skalenscheibe verwendbar.		
Rundknöpfe ϕ D_1 D_2 D_3 A 64 02 005 10 13,5 16 A 64 03 005 20 23 31	Justierschlüssel	Für genaues Einstellen von Kombiknöpfen (Rundknöpfe) mit Markierungsstrich, Skalen- und Pfeilscheiben. Problemlose Knopfmontage.		
G ϕ A 62 07 009 M 7 x 0,75 13,5 A 62 10 009 M 10 x 0,75 12,5 A 62 95 009 3/8" - 32G 12,5	Rundmutter	Zur Befestigung der Potentiometer an Blenden. Passt unter Knopf und Mutterabdeckung (Rundknöpfe / Flügelknöpfe / Knebelknöpfe / COM-KNOBS ϕ 10 / 13,5 / 16 / 20 / 23 / 31 / 40 / 50).		
A 63 00 000	Steckschlüssel	Zum Anziehen der Rundmutter.		
Bohrung A 66 00 064 6 / 4,6	Verdrehungsschutz	Ermöglicht verdrehungssichere Knopfmontage auf Profilachsen 6 / 4,6 mm. Geeignet für Rund- und Flügelknöpfe ϕ 20 bis 50 mit 6 mm Achsbohrung (nicht für COM-KNOBS passend).		