



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

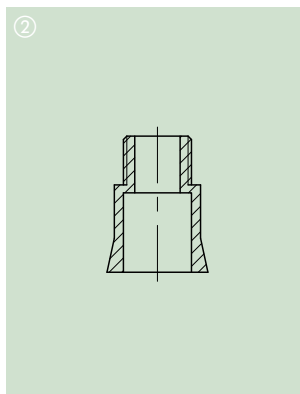
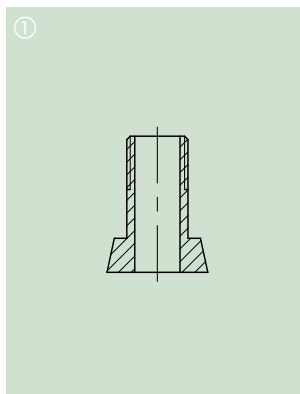
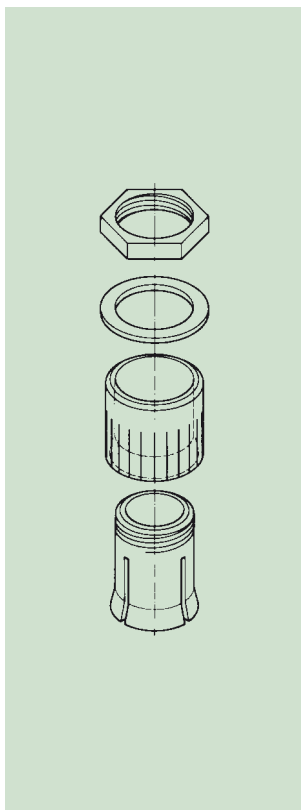
Black, RAL 9005 
Red, RAL F12/0-10 
Dust grey, RAL 7037 

Dial

Transparent, bright surface
with/without symbols 

Stator

Aluminium, 
marking black



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



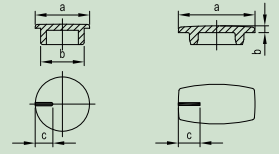
TYPES

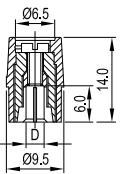
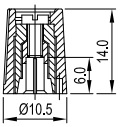
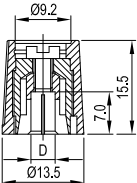
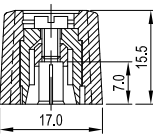
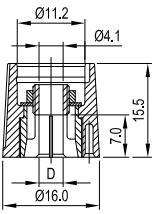
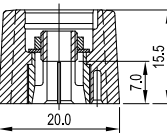
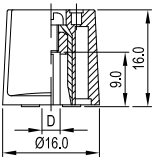
Knob ø	Torque (Nm)		ROUND KNOB		WING KNOB		SPINDLE-SHAPED KNOB	
	assembly	function	borehole		borehole		borehole	
9	0.4	0.4	4 mm		—		—	
10	0.4	0.4	3 mm		—		—	
	0.4	0.4	4 mm					
	0.4	0.4	1/8"					
13.5	0.5	0.5	4 mm		—		—	
	0.7	0.6	6 mm		6 mm			
16	0.5	0.5	—		—		3 mm	
	0.6	0.5	4 mm		—		4 mm	
	0.8	0.7	6 mm		6 mm		—	
	0.8	0.7	1/4"		—		—	
20	0.8	0.7	4 mm		—		—	
	1.0	0.9	6 mm					
	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					

COMBINATION KNOBS

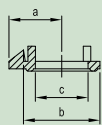
ROUND KNOB
WING KNOB
SPINDLE-SHAPED KNOB
COVER


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



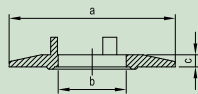
Knob Ø	Shape	Borehole D							without indicator line	with indicator line
9		ROUND KNOB 4 mm, with chamfer		A 26 09 040			a = 8.0 b = 6.5 c = 2.6	 A 41 10 000  A 41 10 002  A 41 10 004  A 41 10 005  A 41 10 006  A 41 10 007  A 41 10 008	A 41 10 100 A 41 10 102 A 41 10 104 A 41 10 106 A 41 10 108	
10		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 16 068 A 25 16 638	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 16 106 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



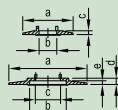
DISK

...010 = indicator line white



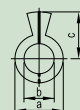
DIAL

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



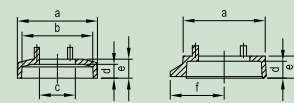
STATOR

indicator line black



NUT COVER

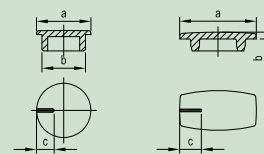
...010 = indicator line white
...018 = indicator line black

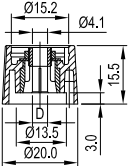
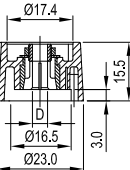
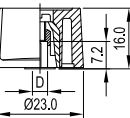
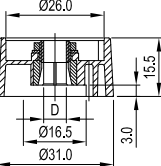
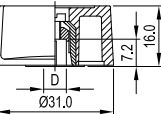


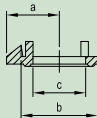
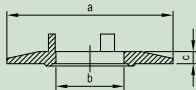
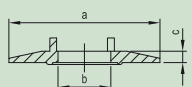
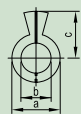
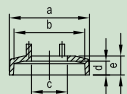
a = 7.0 b = 10.1 c = 7.0		A 42 10 000 A 42 10 002 A 42 10 008					a = 20.0 b = 7.0 c = 1.5 (only for knob ø 10)		A 44 10 060				a = 15.5 b = 14.0 c = 7.0 d = 2.9 e = 3.7 (only for knob ø 10)		A 75 10 000	A 75 10 010 A 75 10 018
a = 9.0 b = 13.6 c = 8.0		A 42 13 000 A 42 13 002 A 42 13 008					a = 26.0 b = 8.0 c = 1.5		A 44 13 010 A 44 13 020 A 44 13 049 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 (ø 16 with moulded-on nut cover)		A 44 16 001 A 44 16 010 A 44 16 020 A 44 16 060	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 = 16.4 b = 14.6 c = 10.0 d = 3.3 e = 4.3 f = 10.2		A 75 16 000 A 76 16 000 A 76 16 008	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	

ROUND KNOB
WING KNOB
SPINDLE-SHAPED KNOB
COVER


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

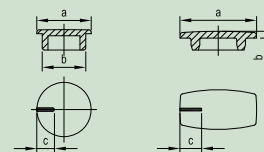


Knob Ø	Shape	Borehole D						without indication line	with indication line
20	 ROUND KNOB	4 mm, without chamfer	A 25 20 040	A 26 20 040			a = 17.5 b = 15.2 c = 5.5	 A 41 20 000	A 41 20 100
		6 mm, with chamfer	A 25 20 060	A 26 20 060	A 25 20 068	A 26 20 068		 A 41 20 002	A 41 20 102
		1/4", with chamfer	A 25 20 630					 A 41 20 004	A 41 20 104
								 A 41 20 005	
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 23 006		A 41 23 105	
						 A 41 23 006		A 41 23 106	
						 A 41 23 007		A 41 23 107	
	 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 31 008	A 50 31 107

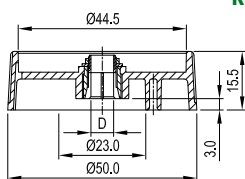
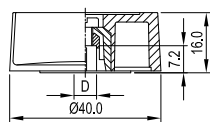
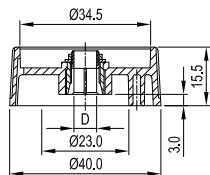
ARROW DISK			DISK			DIAL			STATOR			NUT COVER		
			...010 = indication line white 			...0 = symbols black ...9 = symbols silver 			indication line black 					
														
a = 13.0 b = 20.0 c = 12.0	  	A 42 20 000 A 42 20 002 A 42 20 008				a = 36.0 b = 12.0 c = 1.5	  	A 44 20 001 A 44 20 010 A 44 20 060	a=20.0 b=10.1 c=18.0	A 60 20 019				
a = 14.3 b = 23.0 c = 16.5	  	A 42 23 000 A 42 23 002 A 42 23 008	a = 31.0 b = 16.5 c = 1.3		A 73 23 010	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=23.0 b=10.2 c=20.0	A 60 23 019				
											a = 23.3 b = 20.0 c = 13.7 d = 3.3 e = 4.3	 	A 51 23 000 A 51 23 008	
a = 19.5 b = 31.0 c = 16.5	  	A 42 31 000 A 42 31 002 A 42 31 008	a = 40.0 b = 16.5 c = 1.6		A 73 31 000 A 73 31 010	a = 49.9 b = 16.5 c = 1.5	 	A 44 31 010 A 44 31 060						
											a = 31.1 b = 28.0 c = 15.5 d = 3.3 e = 4.8	 	A 51 31 000 A 51 31 008	

ROUND KNOB
SPINDLE-SHAPED KNOB
COVER


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



Knob Ø	Shape	Borehole D						without indication line	with indication line
40	ROUND KNOB	6 mm, without chamfer 8 mm, without chamfer	A 25 40 060 A 25 40 080	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
	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



ARROW DISK		DISK		DIAL		STATOR		NUT COVER	
		...010 = indication line white							
a = 24.5 b = 40.0 c = 25.0		a = 50.1 b = 24.0 c = 1.8							
A 42 40 000		A 73 40 010							
A 42 40 008									

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

Part-No.	Article	Version / Application	Dim. in mm	Picture
A 61 16 010	Locking device with stator	For round knobs and wing knobs size 16 with dial only. Transparent, marking black.		
A 61 00 000	Locking device	For universal use of round knobs, wing knobs and COM-KNOBS with dial.		
Round knobs ϕ D_1 D_2 D_3 A 64 02 005 10 13.5 16 A 64 03 005 20 23 31	Adjusting key	For correct adjusting of combination knobs (round knobs) with indicator line, dial and arrow disk. Knob mounting without difficulties.		
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	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 ϕ 10 / 13.5 / 16 / 20 / 23 / 31 / 40 / 50).		
A 63 00 000	Spanner	For tightening round nuts.		
Bore A 66 00 064 6 / 4.6	Torsion protection	For torsion-proved mounting of knobs on profiled axes 6 / 4.6 mm. Suitable for round and wing knobs sizes ϕ 20 to 50 with 6 mm borehole (not suitable for COM-KNOBS).		