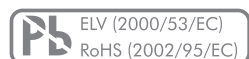


Classic Collet Knobs

- **Precise quality knobs**
- **Secure collet mounting**
- **Wide variety**
- **Lots of accessories**
- **Custom colors on request**

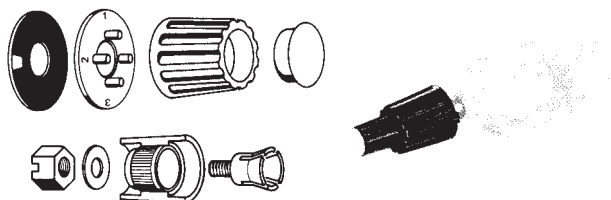


Standard Product Variety

- 9 to 45 mm knob size
- Shaft diameter: 2 mm to 1/4"
- Glossy or matt surface
- Black or gray knob color
- Various cap colors
- With or without line
- Various accessories

Possible Customization

- Color
- Shaft diameter



Introduction

Elma classic collet knobs are available in 7 different diameters. Knobs with diameters of 10 to 28 mm are stocked in two versions; with and without wings. Both versions are available with a line as an option. The knobs are fixed onto the shafts by means of the proven collet tightening method.

The tightening elements for knobs with diameters of 10 mm and 14.5 mm are hidden from view by nut covers. For the larger knob types, concealment of these elements is ensured by the special Elma design.

Caps, pointers, figure dials and nut covers can all be simply plugged onto the collet knobs thanks to the modular design principle.

Furthermore, two different switches can be operated by inserting one knob on top of the other (concentric style). Knobs with diameters of 14.5 to 36 mm are designed to enable the next smallest knob to fit onto it. When dual knobs are used, the larger of the two must be equipped with a collet with through-hole.

Classic Collet Knobs Overview

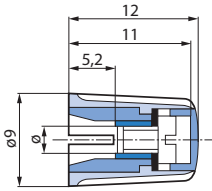
Knob size vs. shaft diameter, wing and crank style

Shaft Ø	Knob Size						
	Ø 9 mm	Ø 10 mm	Ø 14.5 mm	Ø 21 mm	Ø 28 mm	Ø 36 mm	Ø 45 mm
2 mm							
3 mm							
4 mm							
6 mm							
1/8"							
1/4"							
Wing knob							
Crank knob							
See page	74	75	77	79	81	82	83

Classic Collet Knobs

Knob Size: Ø 9 mm

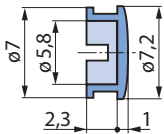
Knob



Marking	Ø	Gray		Black	
		Matt	Glossy	Matt	Glossy
	2	020-1015	020-1010	020-1025	020-1020
	3	020-1115	020-1110	020-1125	020-1120
	1/8"	020-1215	020-1210	020-1225	020-1220
	2	021-1015	021-1010	021-1025	021-1020
	3	021-1115	021-1110	021-1125	021-1120
	1/8"	021-1215	021-1210	021-1225	021-1220

Packaging size: 100 pcs.

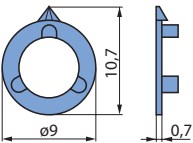
Cap



Marking	Surface	Gray	Black	Red	Blue	Yellow	Green
	Matt	040-1015	040-1025	040-1035	040-1045	040-1055	040-1065
	Glossy	040-1010	040-1020	040-1030	040-1040	040-1050	040-1060
	Matt	040-1615	040-1625	040-1635	040-1645	040-1655	040-1665
	Glossy	040-1610	040-1620	040-1630	040-1640	040-1650	040-1660

Packaging size: 100 pcs.

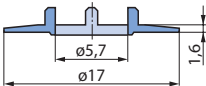
Pointer



Surface	Gray	Black	Red	Blue	Yellow	Green
Matt	041-1015	041-1025	041-1035	041-1045	041-1055	041-1065
Glossy	041-1010	041-1020	041-1030	041-1040	041-1050	041-1060

Packaging size: 100 pcs.

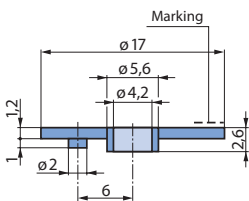
Pointer Dial



Marking	Surface	Gray	Black	Red
	Matt	042-1915	042-1925	042-1935
	Glossy	042-1910	042-1920	042-1930

Packaging size: 100 pcs.

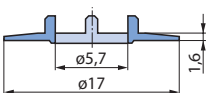
Stator



	With Line, Gray		30°, Black	
	043-2111		043-2221	

Packaging size: 100 pcs.

Figure Dial



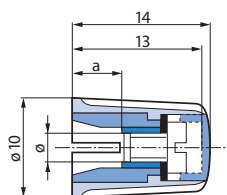
Marking										
Ø 17 mm	042-1000	042-1100	042-1200	042-1300	042-1400	042-1500	042-1600	042-1700	042-1800	042-1802

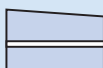
Packaging size: 100 pcs.

Classic Collet Knobs

Knob Size: Ø 10 mm

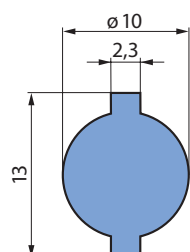
Knob



Marking	a	Ø	Gray		Black	
			Matt	Glossy	Matt	Glossy
Without line 	4.5	2	020-2015	020-2010	020-2025	020-2020
	5.2	3	020-2115	020-2110	020-2125	020-2120
	5.2	1/8"	020-2215	020-2210	020-2225	020-2220
	5.2	4	020-2315	020-2310	020-2325	020-2320
With line 	4.5	2	021-2015	021-2010	021-2025	021-2020
	5.2	3	021-2115	021-2110	021-2125	021-2120
	5.2	1/8"	021-2215	021-2210	021-2225	021-2220
	5.2	4	021-2315	021-2310	021-2325	021-2320

Packaging size: 100 pcs.

Wing Knob

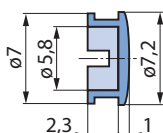


Marking	a	Ø	Gray		Black	
			Matt	Glossy	Matt	Glossy
Without line 	4.5	2	022-2015	022-2010	022-2025	022-2020
	5.2	3	022-2115	022-2110	022-2125	022-2120
	5.2	1/8"	022-2215	022-2210	022-2225	022-2220
	5.2	4	022-2315	022-2310	022-2325	022-2320
With line 	4.5	2	023-2015	023-2010	023-2025	023-2020
	5.2	3	023-2115	023-2110	023-2125	023-2120
	5.2	1/8"	023-2215	023-2210	023-2225	023-2220
	5.2	4	023-2315	023-2310	023-2325	023-2320

Pointer, pointer dial, nut cover and figure dial do not fit to wing knobs unless otherwise stated.

Packaging size: 100 pcs.

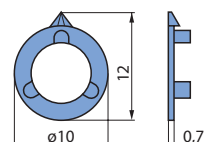
Cap



Marking	Surface	Gray	Black	Red	Blue	Yellow	Green
Without line 	Matt	040-1015	040-1025	040-1035	040-1045	040-1055	040-1065
	Glossy	040-1010	040-1020	040-1030	040-1040	040-1050	040-1060
With line 	Matt	040-1615	040-1625	040-1635	040-1645	040-1655	040-1665
	Glossy	040-1610	040-1620	040-1630	040-1640	040-1650	040-1660

Packaging size: 100 pcs.

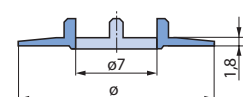
Pointer



Surface	Gray	Black	Red	Blue	Yellow	Green
Matt	041-2015	041-2025	041-2035	041-2045	041-2055	041-2065
Glossy	041-2010	041-2020	041-2030	041-2040	041-2050	041-2060

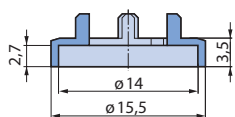
Packaging size: 100 pcs.

Pointer Dial



Marking	Surface	Gray	Black	Red
	Matt	—	042-2928	—
	Glossy	—	042-2923	—
	Matt	042-2915	042-2925	042-2935
	Glossy	042-2910	042-2920	042-2930

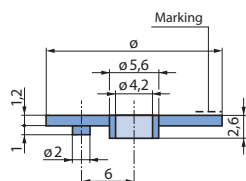
Packaging size: 100 pcs.



Nut Cover

Marking	Surface	Gray	Black
without line	Matt	044-2015	044-2025
	Glossy	044-2010	044-2020
with line	Matt	044-2115	044-2125
	Glossy	044-2110	044-2120

Packaging size: 100 pcs.



Stator

Marking	Ø	With Line, Gray	30°, Black
	17	043-2111	043-2221
	20	043-2110	043-2220

Packaging size: 100 pcs.

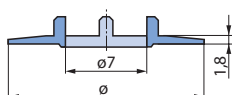


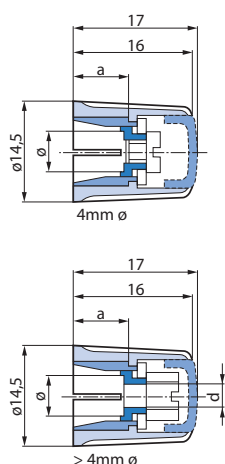
Figure Dial

Marking	Ø 17 mm	Ø 20 mm
	042-2001	042-2101
	042-2201	042-2200
	042-2301	042-2300
	042-2401	042-2400
	042-2500	042-2500
	042-2600	042-2600
	042-2701	042-2700
	042-2801	042-2800
	042-2802	042-2802

Packaging size: 100 pcs.

Classic Collet Knobs

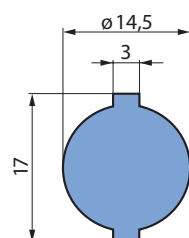
Knob Size: Ø 14.5 mm



Knob

Marking	a	d	Ø	Gray		Black	
				Matt	Glossy	Matt	Glossy
Without line	5.2	—	3	020-3115	020-3110	020-3125	020-3120
	5.2	—	1/8"	020-3215	020-3210	020-3225	020-3220
	5.2	—	4	020-3315	020-3310	020-3325	020-3320
	7.0	3.2	6	020-3415	020-3410	020-3425	020-3420
	7.0	3.2	1/4"	020-3515	020-3510	020-3525	020-3520
With line	5.2	—	3	021-3115	021-3110	021-3125	021-3120
	5.2	—	1/8"	021-3215	021-3210	021-3225	021-3220
	5.2	—	4	021-3315	021-3310	021-3325	021-3320
	7.0	3.2	6	021-3415	021-3410	021-3425	021-3420
	7.0	3.2	1/4"	021-3515	021-3510	021-3525	021-3520

Packaging size: 100 pcs.

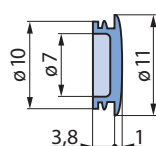


Wing Knob

Marking	a	d	Ø	Gray		Black	
				Matt	Glossy	Matt	Glossy
Without line	5.2	—	3	022-3115	022-3110	022-3125	022-3120
	5.2	—	1/8"	022-3215	022-3210	022-3225	022-3220
	5.2	—	4	022-3315	022-3310	022-3325	022-3320
	7.0	3.2	6	022-3415	022-3410	022-3425	022-3420
	7.0	3.2	1/4"	022-3515	022-3510	022-3525	022-3520
With line	5.2	—	3	023-3115	023-3110	023-3125	023-3120
	5.2	—	1/8"	023-3215	023-3210	023-3225	023-3220
	5.2	—	4	023-3315	023-3310	023-3325	023-3320
	7.0	3.2	6	023-3415	023-3410	023-3425	023-3420
	7.0	3.2	1/4"	023-3515	023-3510	023-3525	023-3520

Pointer, pointer dial, nut cover and figure dial do not fit to wing knobs unless otherwise stated.

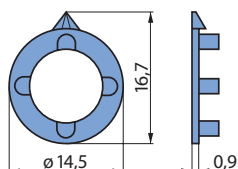
Packaging size: 100 pcs.



Cap

Marking	Surface	Gray	Black	Red	Blue	Yellow	Green
Without line	Matt	040-3015	040-3025	040-3035	040-3045	040-3055	040-3065
	Glossy	040-3010	040-3020	040-3030	040-3040	040-3050	040-3060
With line	Matt	040-3615	040-3625	040-3635	040-3645	040-3655	040-3665
	Glossy	040-3610	040-3620	040-3630	040-3640	040-3650	040-3660

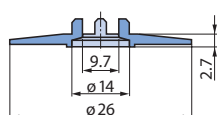
Packaging size: 100 pcs.



Pointer

Surface	Gray	Black	Red	Blue	Yellow	Green
Matt	041-3015	041-3025	041-3035	041-3045	041-3055	041-3065
Glossy	041-3010	041-3020	041-3030	041-3040	041-3050	041-3060

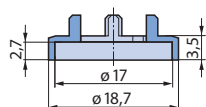
Packaging size: 100 pcs.



Pointer Dial

Marking	Surface	Gray	Black	Red
	Matt	042-3915	042-3925	042-3935
	Glossy	042-3910	042-3920	042-3930

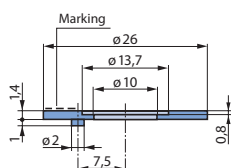
Packaging size: 100 pcs.



Nut Cover

Marking	Surface	Gray	Black	Red
 Without line	Matt	044-3015	044-3025	044-3035
	Glossy	044-3010	044-3020	044-3030
 With line	Matt	044-3115	044-3125	044-3135
	Glossy	044-3110	044-3120	044-3130
 Only for wing knob	Matt	044-3215	044-3225	044-3235
	Glossy	044-3210	044-3220	044-3230

Packaging size: 100 pcs.



Stator

Marking	With Line, Gray	30°, Black
 Marking 	043-3110	043-3220

Packaging size: 100 pcs.

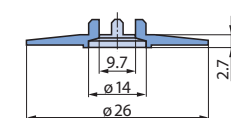


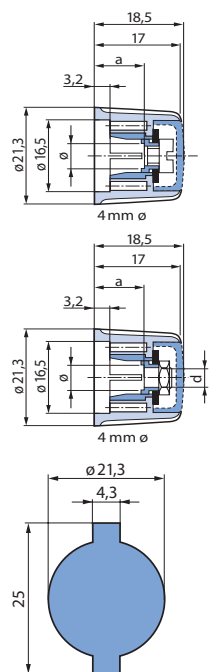
Figure Dial

Marking										
Ø 26 mm	042-3000	042-3100	042-3200	042-3300	042-3400	042-3500	042-3600	042-3700	042-3800	042-3802
Ø 44 mm	042-3010	—	—	—	—	—	—	—	—	—

Packaging size: 100 pcs.

Classic Collet Knobs

Knob Size: Ø 21 mm



Knob

Marking	a	d	Ø	Gray Matt	Glossy	Black Matt	Glossy
Without line	8.3	–	4	020-4315	020-4310	020-4325	020-4320
	10	4.05	6	020-4415	020-4410	020-4425	020-4420
	10	3.2	¼"	020-4515	020-4510	020-4525	020-4520
With line	8.3	–	4	021-4315	021-4310	021-4325	021-4320
	10	4.05	6	021-4415	021-4410	021-4425	021-4420
	10	3.2	¼"	021-4515	021-4510	021-4525	021-4520

Packaging size: 100 pcs.

Wing Knob

Marking	a	d	Ø	Gray Matt	Glossy	Black Matt	Glossy
Without line	8.3	–	4	022-4315	022-4310	022-4325	022-4320
	10	4.05	6	022-4415	022-4410	022-4425	022-4420
	10	3.2	¼"	022-4515	022-4510	022-4525	022-4520
With line	8.3	–	4	023-4315	023-4310	023-4325	023-4320
	10	4.05	6	023-4415	023-4410	023-4425	023-4420
	10	3.2	¼"	023-4515	023-4510	023-4525	023-4520

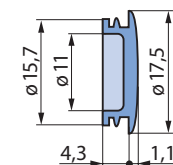
Pointer, pointer dial and figure dial do not fit to wing knobs unless otherwise stated.

Packaging size: 100 pcs.

Cap

Marking	Surface	Gray	Black	Red	Blue	Yellow	Green
Without line	Matt	040-4015	040-4025	040-4035	040-4045	040-4055	040-4065
	Glossy	040-4010	040-4020	040-4030	040-4040	040-4050	040-4060
With line	Matt	040-4615	040-4625	040-4635	040-4645	040-4655	040-4665
	Glossy	040-4610	040-4620	040-4630	040-4640	040-4650	040-4660

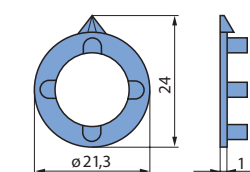
Packaging size: 100 pcs.



Pointer

Surface	Gray	Black	Red	Blue	Yellow	Green
Matt	041-4015	041-4025	041-4035	041-4045	041-4055	041-4065
Glossy	041-4010	041-4020	041-4030	041-4040	041-4050	041-4060

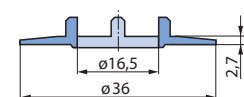
Packaging size: 100 pcs.



Pointer Dial

Marking	Surface	Gray	Black	Red
	Matt	042-4915	042-4925	042-4935
	Glossy	042-4910	042-4920	042-4930

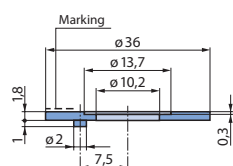
Packaging size: 100 pcs.



Stator

Marking	With Line, Gray	30°, Black	15°, Black
	043-4110	043-4220	043-4230

Packaging size: 100 pcs.



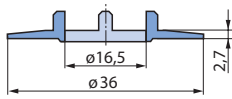


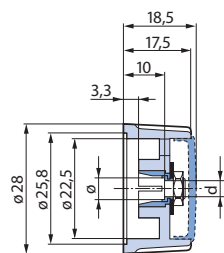
Figure Dial

Marking										
Ø 36 mm	042-4000	042-4100	042-4200	042-4300	042-4400	042-4700	042-4900	042-4901	042-4800	042-4802
Ø 44 mm	042-4010	-	-	-	-	-	-	-	-	-
Ø 53 mm	042-4020	-	-	-	-	-	-	-	-	-

Packaging size: 100 pcs.

Classic Collet Knobs

Knob Size: Ø 28 mm

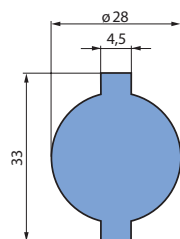


Knob

Marking	d	Ø	Gray Matt	Glossy	Black Matt	Glossy
Without line	4.05	6	020-5415	020-5410	020-5425	020-5420
	3.2	1/4"	020-5515	020-5510	020-5525	020-5520
With line	4.05	6	021-5415	021-5410	021-5425	021-5420
	3.2	1/4"	021-5515	021-5510	021-5525	021-5520

Packaging size: 100 pcs.

Wing Knob

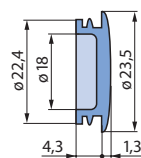


Marking	d	Ø	Gray Matt	Glossy	Black Matt	Glossy
Without line	4.05	6	022-5415	022-5410	022-5425	022-5420
	3.2	1/4"	022-5515	022-5510	022-5525	022-5520
With line	4.05	6	023-5415	023-5410	023-5425	023-5420
	3.2	1/4"	023-5515	023-5510	023-5525	023-5520

Pointer, pointer dial and figure dial do not fit to wing knobs unless otherwise stated.

Packaging size: 100 pcs.

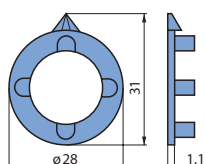
Cap



Marking	Surface	Gray	Black	Red	Blue	Yellow	Green
Without line	Matt	040-5015	040-5025	040-5035	040-5045	040-5055	040-5065
	Glossy	040-5010	040-5020	040-5030	040-5040	040-5050	040-5060
With line	Matt	040-5615	040-5625	040-5635	040-5645	040-5655	040-5665
	Glossy	040-5610	040-5620	040-5630	040-5640	040-5650	040-5660

Packaging size: 100 pcs.

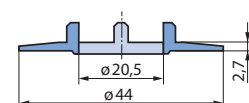
Pointer



Surface	Gray	Black	Red	Blue	Yellow	Green
Matt	041-5015	041-5025	041-5035	041-5045	041-5055	041-5065
Glossy	041-5010	041-5020	041-5030	041-5040	041-5050	041-5060

Packaging size: 100 pcs.

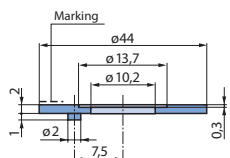
Pointer Dial



Marking	Surface	Gray	Black	Red
	Matt	042-5915	042-5925	042-5935
	Glossy	042-5910	042-5920	042-5930

Packaging size: 100 pcs.

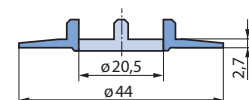
Stator



Marking	With Line, Gray	30°, Black	15°, Black
	043-5110	043-5220	043-5230

Packaging size: 100 pcs.

Figure Dial

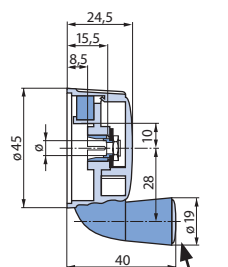
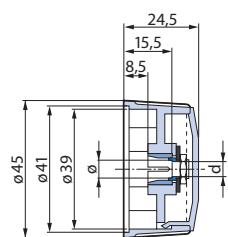


Marking		30°	30°	27,7°	15°	15°		
		0-11	1-12	1-13	0-23	1-24		
Ø 44 mm	042-5000	042-5100	042-5200	042-5700	042-5900	042-5901	042-5800	042-5802
Ø 53 mm	042-5020	-	-	-	-	-	-	-
Ø 63 mm	042-5030	-	-	-	-	-	-	-

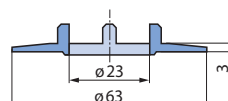
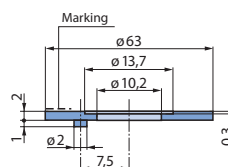
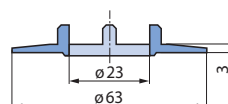
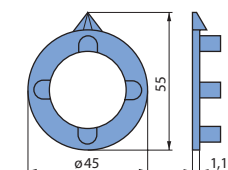
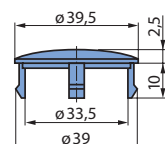
Packaging size: 100 pcs.

Classic Collet Knobs

KnobSize: Ø 45 mm



use cap for 21 mm knobs



Knob

Marking	d	Ø	Gray, Glossy	Black, Glossy
Without line	4.05	6	020-7410	020-7420
	3.2	¼"	020-7510	020-7520
With line	4.05	6	021-7410	021-7420
	3.2	¼"	021-7510	021-7520

Packaging size: 50 pcs.

Crank Knob

Marking	d	Ø	Gray, Glossy	Black, Glossy
	4.05	6	020-8410	020-8420

Packaging size: 40 pcs.

Cap

Marking	Surface	Gray	Black	Red
Without line	Glossy	040-8010	040-8020	040-8030

Packaging size: 100 pcs.

Pointer

Surface	Gray	Black	Red
Glossy	041-7110	041-7120	041-7130

Packaging size: 100 pcs.

Pointer Dial

Marking	Surface	Gray	Black
	Glossy	042-7910	042-7920

Packaging size: 100 pcs.

Stator

Marking	With Line, Gray	30°, Black
	043-7110	043-7920

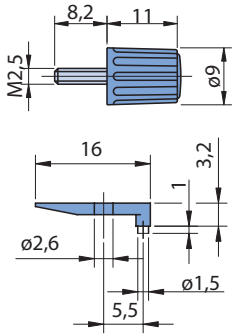
Packaging size: 100 pcs.

Figure Dial

Marking		30°	30°	27.7°		
	0-11	1-12	1-13			
Ø 63 mm	042-7000	042-7100	042-7200	042-7700	042-7800	042-7802

Packaging size: 100 pcs.

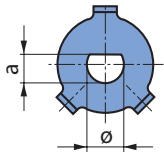
Knob Program Additions



Locking Set

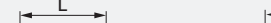
Locks arrow dial or figure dial Ø 20-63 mm on front panel (protection against unintentional turning).

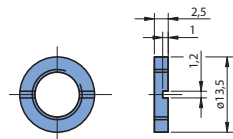
Locking Set, Consisting of	Gray	Black	Clear Transp.	Clear Transp. with Line
Screw with knob	026-2010	026-2020	—	—
Locking piece	—	—	026-2100	026-2200



Anti-Slip Bracket

D-shape prevents slippage on shaft and incorrect knob mounting. For knobs Ø 21, 28, 36 mm.

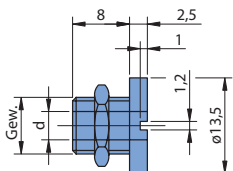
Anti-Slip Bracket Corresponding Shaft with Flat	Ø	a	L	Order Number
	4 mm	3.50 mm	7 mm	048-2000
	6 mm	4.60 mm	9 mm	048-2300
	6 mm	5.00 mm	9 mm	048-2100
	¼"	5.08 mm	9 mm	048-2200



Slotted Nut (Brass)

Starting with the knobs Ø 14.5 mm, stators can be mounted directly underneath the slotted nut of the central mounting bushing of the switch.

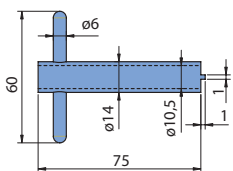
Thread	M6 x 0.75	M7 x 0.75	M8 x 0.75	M10 x 0.75	3/8" - 32
Slotted nut	046-1000	046-1500	046-2000	046-3000	046-4000



Mounting Aid

Stators for knobs Ø 14.5 mm or larger can be mounted directly to the bushing on the front panel in cases where the switch does not have a central mounting.

Mounting aid with through-hole Ø 6 mm	047-3000
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Mounting Tool

Tool for tightening of our slotted nuts and threaded bushings.

Mounting tool	048-1000
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Material Data

Metal Parts

Brass is used for the collets, sleeves and nuts. The surface of screw and washer is protected against corrosion.

Knobs and Accessories

With the exception of the transparent figure dials all mouldings of the collet knob range are manufactured of polyamide. This material is resistant against amyl alcohol, petroleum, freon, caustic potash, 50% caustic soda, all at a temperature of +20°C.

Figure Dials

The transparent dials are made of PMMA and are also resistant to the above mentioned chemicals.

Operating temperature range: -40 to +70°C

Packaging size: 100 pcs. per tray

Fastening and Operating Torques

Knob Ø	Collet Ø									
	2 mm		3 mm, 1/8"		4 mm		6 mm		1/4"	
	a	b	a	b	a	b	a	b	a	b
	Ncm	Ncm	Ncm	Ncm	Ncm	Ncm	Ncm	Ncm	Ncm	Ncm
9 mm	50	25	50	25						
10 mm			80	40	80	60				
14.5 mm			100	50	100	80	120	140	120	140
21 to 45 mm					100	80	160	140	120	140

a = Max. admissible fastening torque for screws resp. nuts.

b = Operating torque for stainless steel shafts with a tolerance of h8 for max. tightening torque.

Type Key

0	2	X	-	X	X	X	X
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Style, Line

- 0 - Knob without line
- 1 - Knob with line
- 2 - Wing knob without line
- 3 - Wing knob with line

Surface

- 0 - Glossy
- 5 - Matt

Color

- 1 - Gray
- 2 - Black

Knob Size	Collet Ø							Collet with Through Drilling Ø			
	2	3	4	5	6	1/8"	1/4"	4	6	1/8"	1/4"
9 mm	10	11				12					
10 mm	20	20	23			22					
14.5 mm	30	31	33	36	34	32	35			3G	
21 mm	40	41	43	46	44	42	45	4E	4F	4G	4H
28 mm		51	53	56	54		55	5E	5F	5G	5H
36 mm			63	66	64		65	6E	6F		6H
45 mm					74		75		7F		7H

Explanation:

- Standard version (in the catalog)
- Optional
- Not possible