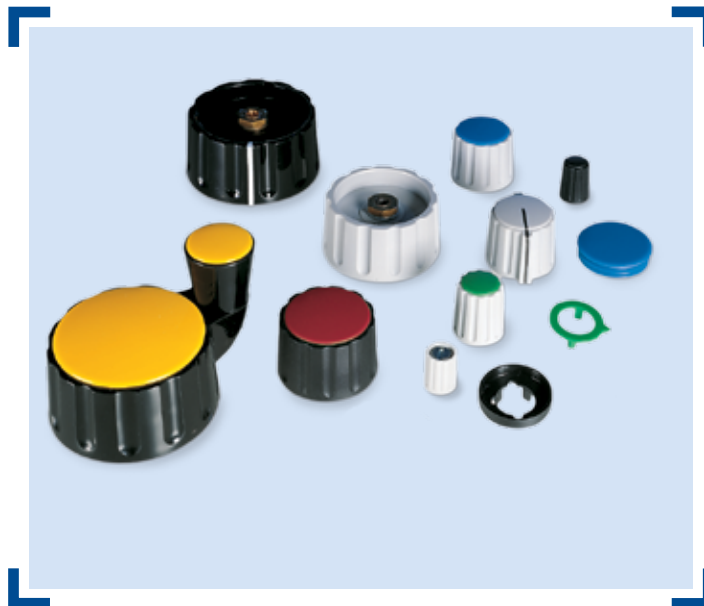
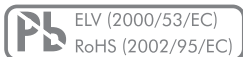


Classic Collet Knobs

- **Precise quality knobs**
- **Secure collet mounting**
- **Wide variety**
- **Lots of accessories**
- **Customized colours on request available**

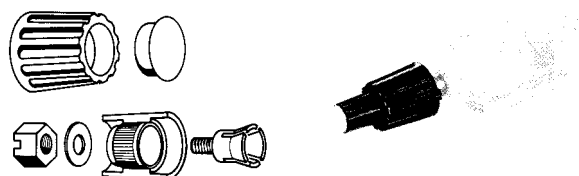


Standard Product Variety

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

Possible Customization

- Colour
- 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.

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.

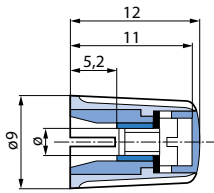
Classic Collet Knobs Overview

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 | 81 | 82 | 83 | 84 | 85 | 86 | 87 |

Classic Collet Knobs

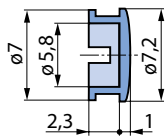
Knob Size: \varnothing 9 mm



Knob

| Marking | \varnothing | 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 |

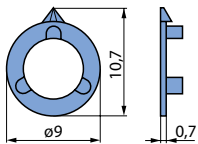
Packaging size: 100 pcs.



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

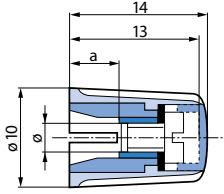
| Surface | Gray | Black | Red | Blue | Yellow | Green |
|---------|----------|----------|----------|----------|----------|----------|
| Matt | 041-1015 | 041-1025 | 041-1035 | 041-1045 | 041-1055 | 041-1065 |
| Glossy | 041-1010 | 041-1020 | 041-1030 | 041-1040 | 041-1050 | 041-1060 |

Packaging size: 100 pcs.

Classic Collet Knobs

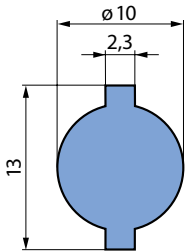
Knob Size: \varnothing 10 mm

Knob



| Marking | a | \varnothing | 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 |

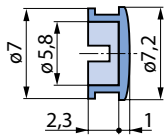
Packaging size: 100 pcs.



Wing Knob

| Marking | a | \varnothing | Gray | | Black | |
|-----------|-----|---------------|----------|----------|----------|----------|
| | | | Matt | Glossy | Matt | Glossy |
| 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 |

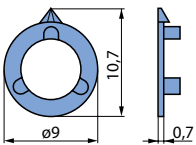
Packaging size: 100 pcs.



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 |

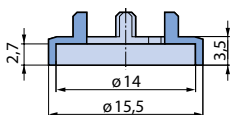
Packaging size: 100 pcs.



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.



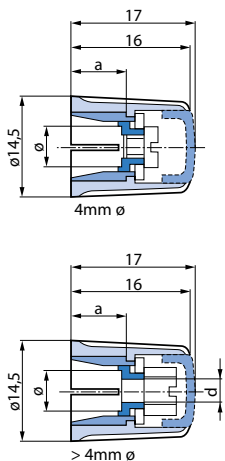
Nut Cover

| 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.

Classic Collet Knobs

Knob Size: \varnothing 14.5 mm

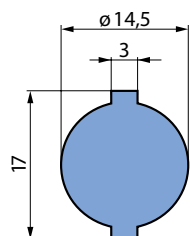


Knob

| Marking | a | d | \varnothing | 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.

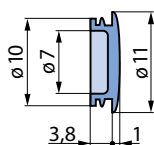
Wing Knob



| Marking | a | d | \varnothing | Gray | | Black | |
|--------------|-----|-----|---------------|----------|----------|----------|----------|
| | | | | Matt | Glossy | Matt | Glossy |
| Without 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 |

Packaging size: 100 pcs.

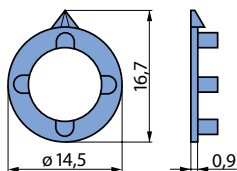
Cap



| 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.

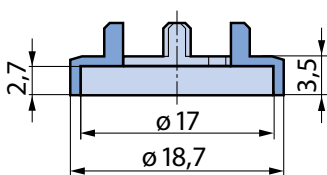
Pointer



| 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.

Nut Cover

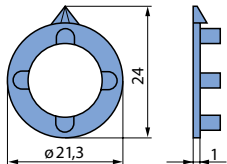
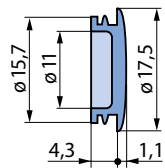
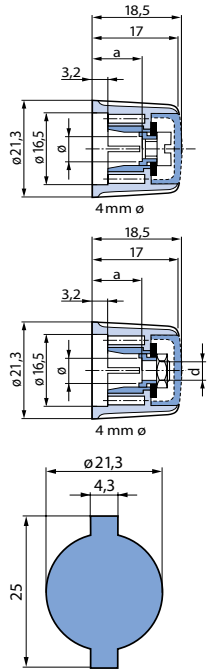


| Marking | Surface | Gray | Black | Red |
|--------------------|---------|----------|----------|----------|
| | | | | |
| Without line | Matt | 044-3015 | 044-3025 | 044-3035 |
| | Glossy | 044-3010 | 044-3020 | 044-3030 |
| With line | Matt | 044-3115 | 044-3125 | 044-3135 |
| | Glossy | 044-3110 |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

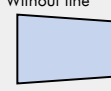
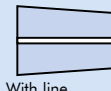
Packaging size: 100 pcs.

Classic Collet Knobs

Knob Size: Ø 21 mm

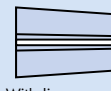


Knob

| Marking | a | d | Ø | Gray | | Black | |
|---|-----|------|------|----------|----------|----------|----------|
| | | | | Matt | Glossy | 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 | 1/4" | 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 | 1/4" | 021-4515 | 021-4510 | 021-4525 | 021-4520 |

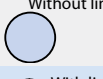

Packaging size: 100 pcs.

Wing Knob

| Marking | a | d | Ø | Gray | | Black | |
|---|-----|------|------|----------|----------|----------|----------|
| | | | | Matt | Glossy | Matt | Glossy |
| Without 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 | 1/4" | 023-4515 | 023-4510 | 023-4525 | 023-4520 |

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.

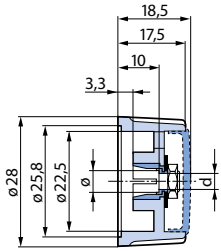
Pointer

| 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.

Classic Collet Knobs

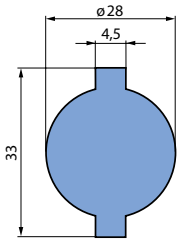
Knob Size: \varnothing 28 mm



Knob

| Marking | d | \varnothing | Gray | | Black | |
|--------------|------|---------------|----------|----------|----------|----------|
| | | | Matt | Glossy | 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.

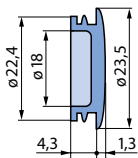


Wing Knob

| Marking | d | \varnothing | Gray | | Black | |
|--------------|------|---------------|----------|----------|----------|----------|
| | | | Matt | Glossy | Matt | Glossy |
| Without 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.

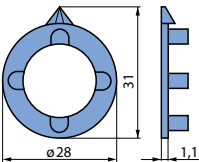
Packaging size: 100 pcs.



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.



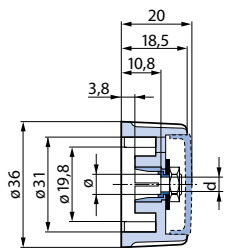
Pointer

| 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.

Classic Collet Knobs

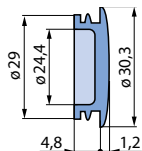
Knob Size: Ø 36 mm



Knob

| Marking | d | Ø | Gray | | Black | |
|--------------|------|------|----------|----------|----------|----------|
| | | | Matt | Glossy | Matt | Glossy |
| Without line | 4.05 | 6 | 020-6415 | 020-6410 | 020-6425 | 020-6420 |
| | 3.2 | 1/4" | 020-6515 | 020-6510 | 020-6525 | 020-6520 |
| With line | 4.05 | 6 | 021-6415 | 021-6410 | 021-6425 | 021-6420 |
| | 3.2 | 1/4" | 021-6515 | 021-6510 | 021-6525 | 021-6520 |

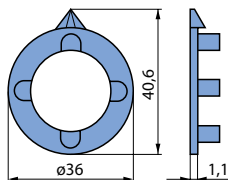
Packaging size: 50 pcs.



Cap

| Marking | Surface | Gray | Black | Red |
|--------------|---------|----------|----------|----------|
| Without line | Matt | 040-6015 | 040-6025 | 040-6035 |
| | Glossy | 040-6010 | 040-6020 | 040-6030 |
| With line | Matt | 040-6615 | 040-6625 | 040-6635 |
| | Glossy | 040-6610 | 040-6620 | 040-6630 |

Packaging size: 100 pcs.



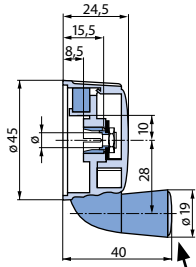
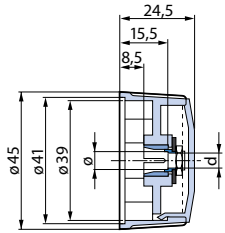
Pointer

| Surface | Gray | Black | Red |
|---------|----------|----------|----------|
| Matt | 041-6015 | 041-6025 | 041-6035 |
| Glossy | 041-6010 | 041-6020 | 041-6030 |

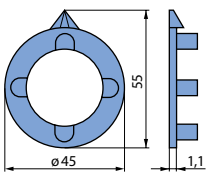
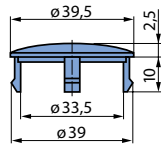
Packaging size: 100 pcs.

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 | 1/4" | 020-7510 | 020-7520 |
| With line | 4.05 | 6 | 021-7410 | 021-7420 |
| | 3.2 | 1/4" | 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 |

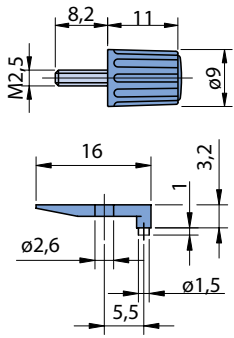
Packaging size: 100 pcs.

Pointer

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

Packaging size: 100 pcs.

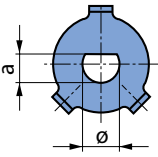
Knob Program Additions



Locking Set

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

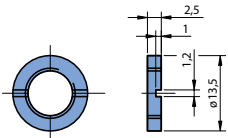
| Locking Set, Consisting of | Gray | Black | Clear Transp. | Clear Transp. with Line |
|----------------------------|----------|----------|---------------|-------------------------|
| Screw with knob | 026-2010 | 026-2020 | – | – |
| Locking piece | – | – | 026-2100 | 026-2200 |



Anti-Slip Bracket

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

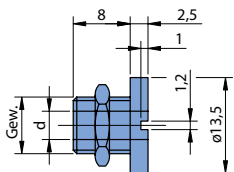
| Anti-Slip Bracket Corresponding Shaft with Flat | \varnothing | α | L | Order Number |
|---|---------------|----------|------|--------------|
| | 4 mm | 3.50 mm | 7 mm | 048-2000 |
| | 6 mm | 4.60 mm | 9 mm | 048-2300 |
| | 6 mm | 5.00 mm | 9 mm | 048-2100 |
| | 1/4" | 5.08 mm | 9 mm | 048-2200 |



Slotted Nut (Brass)

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

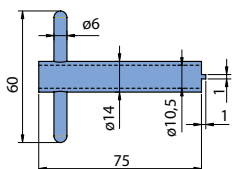
| Thread | M6 x 0.75 | M7 x 0.75 | M8 x 0.75 | M10 x 0.75 | 3/8" - 32 |
|-------------|-----------|-----------|-----------|------------|-----------|
| Slotted nut | 046-1000 | 046-1500 | 046-2000 | 046-3000 | 046-4000 |



Mounting Aid

Stators for knobs \varnothing 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 \varnothing 6 mm | 047-3000 |
|---|----------|



Mounting Tool

Tool for tightening of our slotted nuts and threaded bushings.

| | |
|---------------|----------|
| Mounting tool | 048-1000 |
|---------------|----------|

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

Operating temperature range: -40 to +70°C

Flammability: UL94-HB

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.

Classic Collet Knobs

Type Key

0 2 X - X X X X

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