K
VERSION 8

MENTOR®
INNOVATIONS FOR THE FUTURE

Kunststoff- / Metall-Knöpfe · Mechanische Bauelemente
Plastic / Metal Knobs · Mechanical Components



MENTOR
INNOVATIONS FOR THE FUTURE

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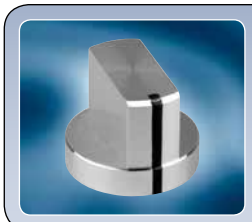
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Digital Drehknöpfe

Digital Turning Knobs

Technische Daten	Technical Data
Anzahl der Umdrehungen: 10 · kein toter Gang	Number of turns: 10 · no backlash
Ablesbarkeit: 1/500 Umdrehung	Readability: within 1/500 of a turn
Arretierung: Feststellbremse	Locking: Locking brake
Werkstoff: Thermoplast	Material: Thermoplastic

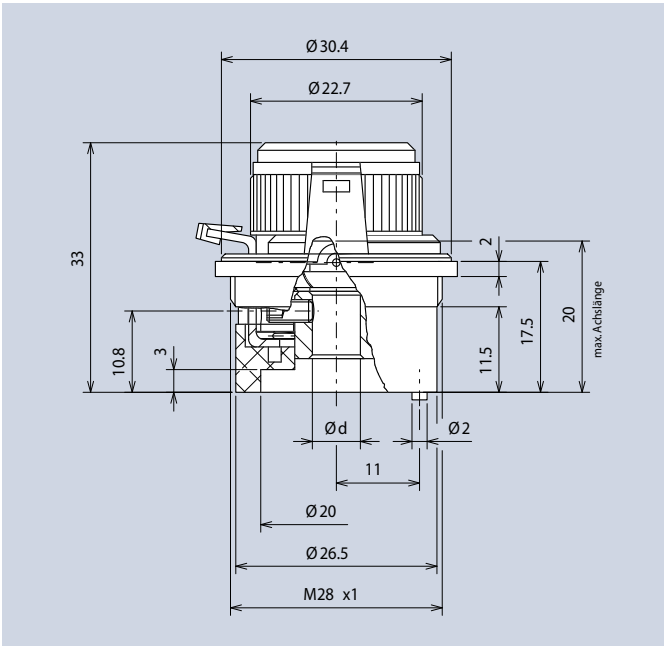
Montage	Mounting
Siehe Montagezeichnung unten	See mounting instruction below
Achslänge über Befestigungsplatte: min. 13mm / max. 20mm	Shaft extension beyond panel: min. 13mm / max. 20mm
Länge der Durchführung über der Befestigungsplatte: max. 4,1mm	Bushing extension beyond panel: max. 4.1mm

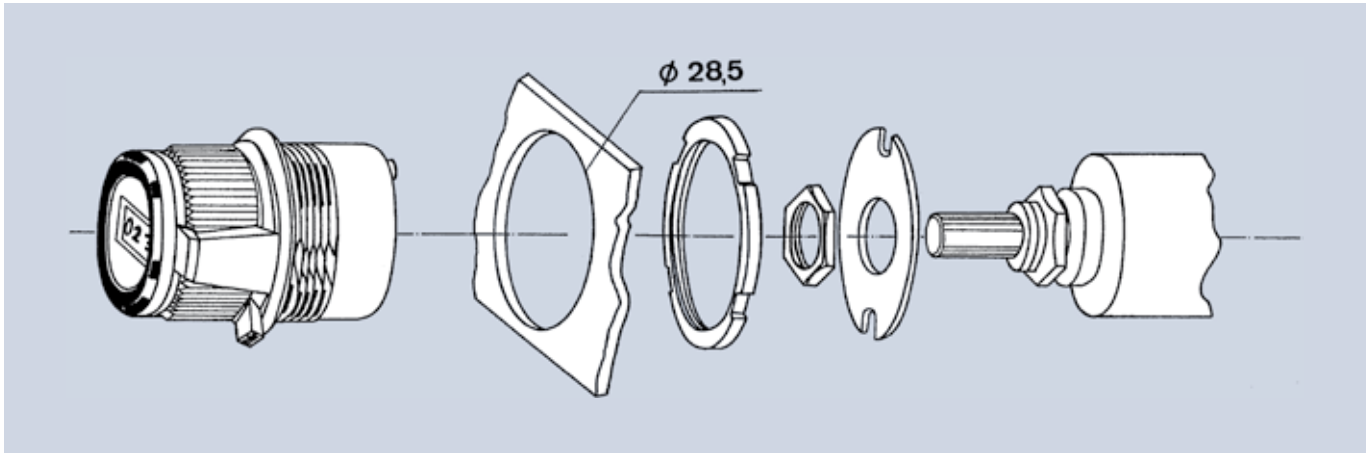
Für den Gebrauch von Präzisionspotentiometern oder anderen rotierenden Bauteilen.

For use with precision-potentiometers or other rotating devices.



Ød	Art.-Nr.
6	**6622.1001**
6,35	**6622.1000**





Montagezeichnung · Mounting instruction

Analog Drehknöpfe

Analog Turning Knobs

Technische Daten	Technical Data
Anzahl der Umdrehungen: 15 · kein toter Gang	Number of turns: 15 · no backlash
Skaleneinteilung: 50 je Umdrehung	Dial divisions: 50 per turn
Ablesbarkeit: 1/50 Umdrehung	Readability: within 1/50 of a turn
Arretierung: Feststellbremse	Locking: Locking brake
Werkstoff: Thermoplast glasfaserverstärkt	Material: Glass-fibre reinforced Thermoplastic

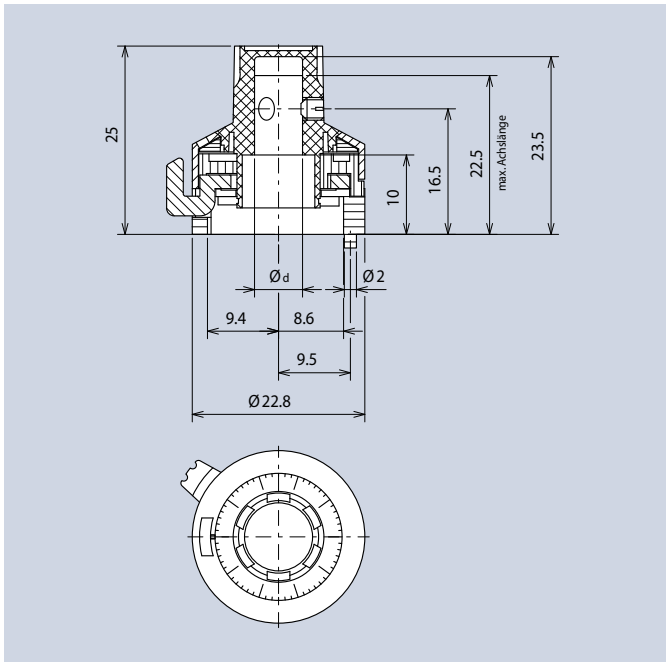
Montage	Mounting
Siehe Montagezeichnung unten	See mounting instruction below
Achslänge über Befestigungsplatte: min. 18mm / max. 22,5mm	Shaft extension beyond panel: min. 18mm / max. 22.5mm
Länge der Durchführung über der Befestigungsplatte: max. 10mm	Bushing extension beyond panel: max. 10mm

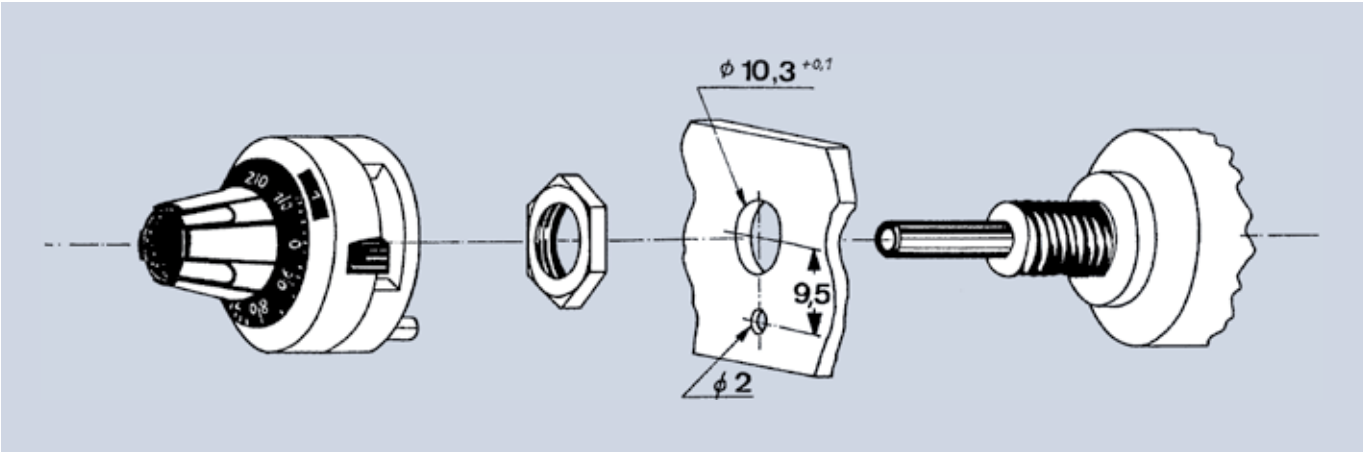
Für den Gebrauch von Präzisionspotentiometern oder anderen rotierenden Bauteilen.

For use with precision-potentiometers or other rotating devices.



Gehäusering · Housing Ring	Ød	Art.-Nr.
Aluminiumausführung matt-naturton-eloxiert Aluminium type mat-aluton-anodized	6,35	**6623.1000**
Aluminiumausführung matt-naturton-eloxiert Aluminium type mat-aluton-anodized	6	6623.1001
Aluminiumausführung hochglanz gedreht Aluminium type high-gloss turned	6,35	6623.1010
Aluminiumausführung hochglanz gedreht Aluminium type high-gloss turned	6	6623.1011
Aluminiumausführung matt-schwarz-eloxiert Aluminium type mat-black-anodized	6,35	6623.1030
Aluminiumausführung matt-schwarz-eloxiert Aluminium type mat-black-anodized	6	6623.1031





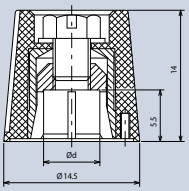
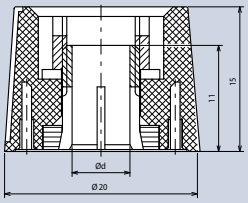
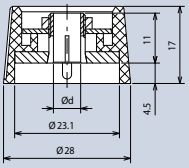
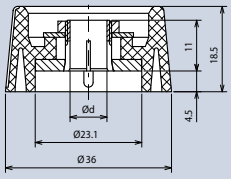
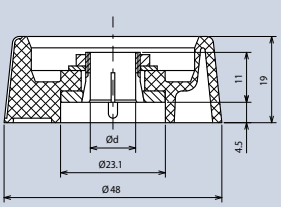
Montagezeichnung · Mounting instruction

Kunststoff Drehknopf matt mit Spannzangenbefestigung

Plastic Turning Knob mat with Collet Fixing

Farbenschlüssel · Color Key

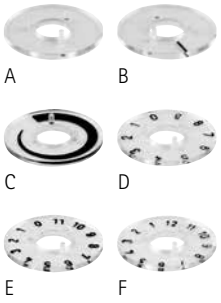
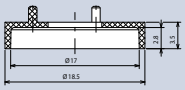
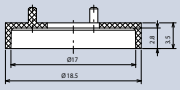
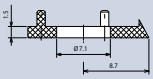
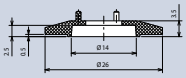
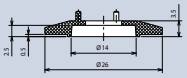
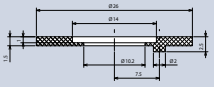
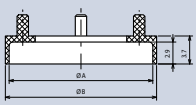
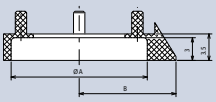
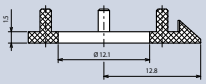
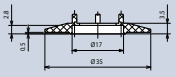
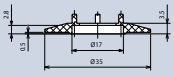
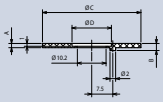
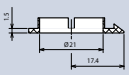
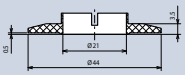
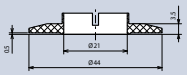
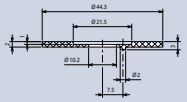
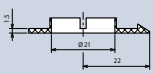
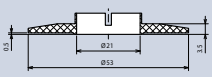
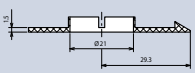
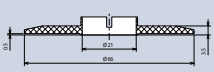
- rot · red
- blau · blau
- schwarz · black
- gelb · yellow
- grau · grey
- grün · green

Knöpfe · Knobs				Abdeckkappen · Caps	
		Ø d	 ohne Markierung without marking	 mit Markierung with marking	 ohne Markierung without marking matt · mat
		4 6	■ 4331.4000 ■ 4331.6000	■ 4331.4001 ■ 4331.6001	■ 499.642 ■ 499.643 ■ 499.644 ■ 499.646 ■ 499.647 ■ 499.648 matt · mat ■ 499.673
		4 6	■ 4332.4000 ■ 4332.6000	■ 4332.4001 ■ 4332.6001	■ 332.662 ■ 332.663 ■ 332.664 ■ 332.666 ■ 332.667 ■ 332.668 matt · mat ■ 332.673
		6	■ 4333.6000	■ 4333.6001	■ 333.662 ■ 333.663 ■ 333.664 333.666 333.667 333.668 matt · mat ■ 333.673
		6	■ 4334.6000	■ 4334.6001	■ 334.662 ■ 334.663 ■ 334.664 matt · mat ■ 334.673
		6	■ 4335.6000	■ 4335.6001	■ 335.662 ■ 335.663 ■ 335.664 matt · mat ■ 335.673

Magerdruck keine Lagerware · Bestellmenge und Preise auf Anfrage · Articles in roman typefaces not in stock · Order quantities and prices on request

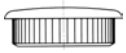
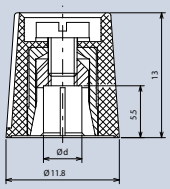
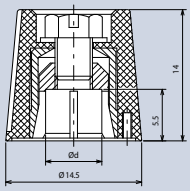
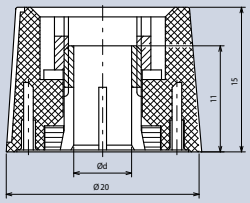
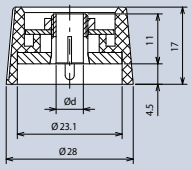
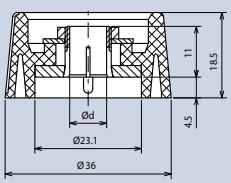
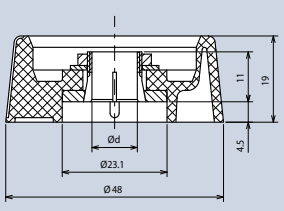
Zubehör

Accessories

Mutterabdeckungen · Nut Coverings		Zeiger · Pointers	Zeigerscheiben · Pointer Dials		Grundplatten · Base Plates
 ohne Zeiger without Pointer	 mit Zeiger with Pointer			 A B C D E F	
					
■ 331.120	■ 331.130 ■ 331.132	■ 331.100 ■ 331.101 ■ 331.102	■ 331.250	A ... 331.200 B ... 331.201 C ... 331.202 D ... 331.203 E ... 331.204 F ... 331.205	■ 331.300
					
■ 332.120	■ 332.100 ■ 332.101 ■ 332.102	■ 4332.100	■ 332.250	A ... 332.200 B ... 332.201 C ... 332.202 D ... 332.203 E ... 332.204 F ... 332.205	■ 332.300
					
		■ 333.100 ■ 333.101 ■ 333.102	■ 333.250	A ... 333.200 B ... 333.201 C ... 333.202 D ... 333.203 E ... 333.204 F ... 333.205	■ 333.300
					
		■ 334.100 ■ 334.101 ■ 334.102		A ... 334.200 B ... 334.201	
					
		■ 335.100 ■ 335.101 ■ 335.102		A ... 335.200 B ... 335.201	

Kunststoff Drehknopfsystem mit Spannzangenbefestigung

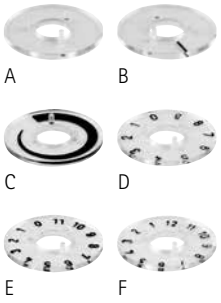
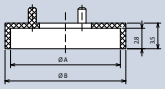
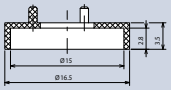
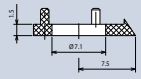
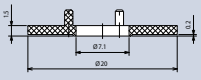
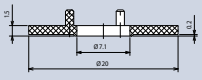
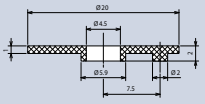
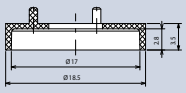
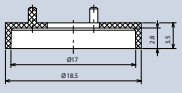
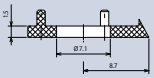
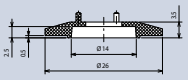
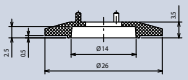
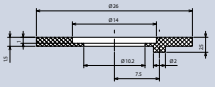
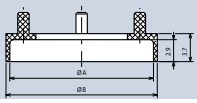
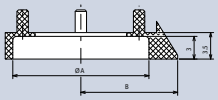
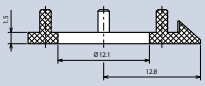
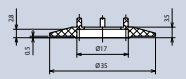
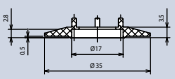
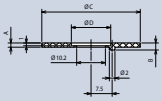
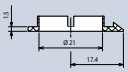
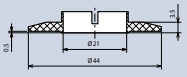
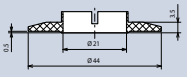
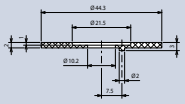
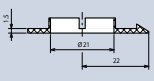
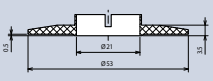
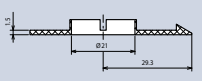
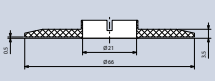
Plastic Turning Knob System with Collet Fixing

Knöpfe · Knobs					Abdeckkappen · Caps
Farbenschlüssel · Color Key rot · red blau · blue schwarz · black gelb · yellow grau · grey grün · green		Ø d	 ohne Markierung without marking	 mit Markierung with marking	 glänzend bright
		3 4	■ 330.3 ■ 330.4	■ 330.31 ■ 330.41	■ 499.642 ■ 499.643 ■ 499.644 ■ 499.646 ■ 499.647 ■ 499.648
		4 6	■ 331.4 ■ 331.6	■ 331.41 ■ 331.61	■ 499.642 ■ 499.643 ■ 499.644 ■ 499.646 ■ 499.647 ■ 499.648
		4 6	■ 332.4 ■ 332.6	■ 332.41 ■ 332.61	■ 332.662 ■ 332.663 ■ 332.664 ■ 332.666 ■ 332.667 ■ 332.668
		6	■ 333.6	■ 333.61	■ 333.662 ■ 333.663 ■ 333.664 333.666 333.667 333.668
		6 8	■ 334.6 ■ 334.8	■ 334.61 ■ 334.81	■ 334.662 ■ 334.663 ■ 334.664
		6 8 10	■ 335.6 ■ 335.8 ■ 335.9	■ 335.61 ■ 335.81 ■ 335.91	■ 335.662 ■ 335.663 ■ 335.664

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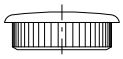
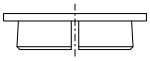
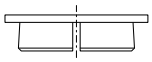
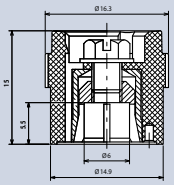
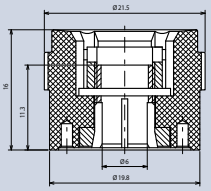
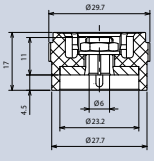
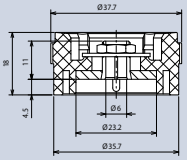
Zubehör

Accessories

Mutterabdeckungen · Nut Coverings		Zeiger · Pointers	Zeigerscheiben · Pointer Dials		Grundplatten · Base Plates
 ohne Zeiger without Pointer	 mit Zeiger with Pointer			 A B C D E F	
					
■ 330.120	■ 330.130	■ 330.100 ■ 330.101 ■ 330.102	■ 330.250	A ... 330.200 B ... 330.201 C ... 330.202 D ... 330.203 E ... 330.204 F ... 330.205	■ 330.300
					
■ 331.120	■ 331.130 ■ 331.132	■ 331.100 ■ 331.101 ■ 331.102	■ 331.250	A ... 331.200 B ... 331.201 C ... 331.202 D ... 331.203 E ... 331.204 F ... 331.205	■ 331.300
					
■ 332.120	■ 332.100 ■ 332.101 ■ 332.102	■ 4332.100	■ 332.250	A ... 332.200 B ... 332.201 C ... 332.202 D ... 332.203 E ... 332.204 F ... 332.205	■ 332.300
					
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		■ 334.100 ■ 334.101 ■ 334.102		A ... 334.200 B ... 334.201	
					
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Kunststoff Drehknopfsystem mit Spannzangenbefestigung

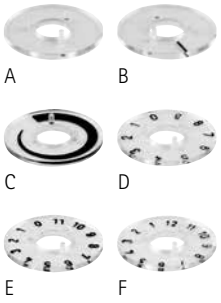
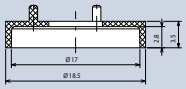
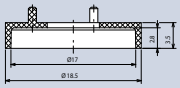
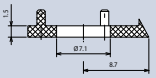
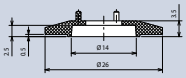
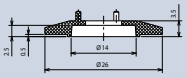
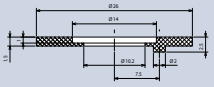
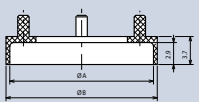
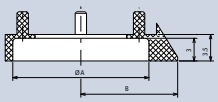
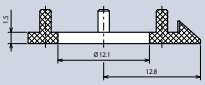
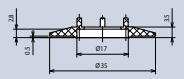
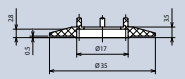
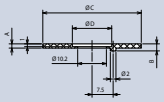
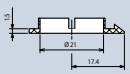
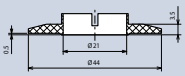
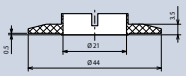
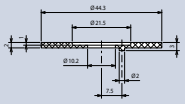
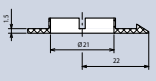
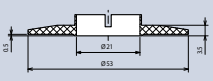
Plastic Turning Knob System with Collet Fixing

Knöpfe · Knobs					Abdeckkappen · Caps		
Farbenschlüssel · Color Key rot · red blau · blue schwarz · black gelb · yellow grau · grey grün · green		Ø d		 glänzend bright	 ohne Markierung without marking	 mit Markierung with marking
		6	**■ 4131.603**	**■ 331.662** **■ 331.663** **■ 331.664** ■ 331.666 ■ 331.667 ■ 331.668	**■ 4131.063** **■ 4131.064**	**■ 4131.073** **■ 4131.074**
		6	**■ 4132.603**	**■ 332.662** **■ 332.663** **■ 332.664** **■ 332.666** **■ 332.667** **■ 332.668**	**■ 4132.063** **■ 4132.064**	**■ 4132.073** **■ 4132.074**
		6	**■ 4133.603**	**■ 333.662** **■ 333.663** **■ 333.664** ■ 333.666 ■ 333.667 ■ 333.668	**■ 4133.063** **■ 4133.064**	**■ 4133.073** **■ 4133.074**
		6	**■ 4134.603**	**■ 334.662** **■ 334.663** **■ 334.664**	**■ 4134.063** **■ 4134.064**	**■ 4134.073** **■ 4134.074**

Magerdruck keine Lagerware · Bestellmenge und Preise auf Anfrage · Articles in roman typefaces not in stock · Order quantities and prices on request

Zubehör

Accessories

Mutterabdeckungen · Nut Coverings		Zeiger · Pointers	Zeigerscheiben · Pointer Dials		Grundplatten · Base Plates
 ohne Zeiger without Pointer	 mit Zeiger with Pointer			 A B C D E F	
					
■ 331.120	■ 331.130 ■ 331.132	■ 331.100 ■ 331.101 ■ 331.102	■ 331.250	A ... 331.200 B ... 331.201 C ... 331.202 D ... 331.203 E ... 331.204 F ... 331.205	■ 331.300
					
■ 332.120	■ 332.100 ■ 332.101 ■ 332.102	■ 4332.100	■ 332.250	A ... 332.200 B ... 332.201 C ... 332.202 D ... 332.203 E ... 332.204 F ... 332.205	■ 332.300
					
		■ 333.100 ■ 333.101 ■ 333.102	■ 333.250	A ... 333.200 B ... 333.201 C ... 333.202 D ... 333.203 E ... 333.204 F ... 333.205	■ 333.300
					
		■ 334.100 ■ 334.101 ■ 334.102		A ... 334.200 B ... 334.201	

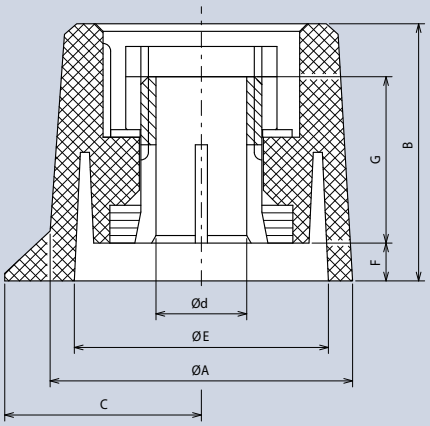
Kunststoff Drehknöpfe matt mit Spannzangenbefestigung

Plastic Turning Knobs mat with Collet Fixing

Technische Daten
Werkstoff: PBT

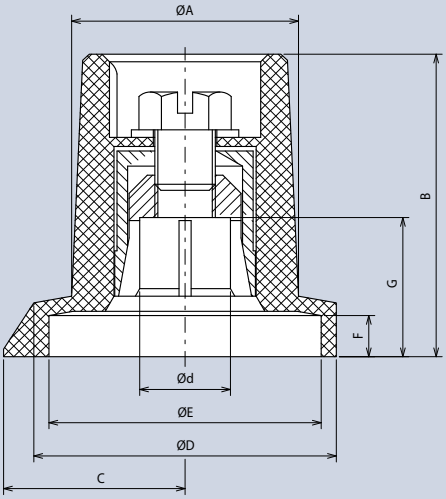
General Technical Data
Material: PBT





ØA	B	C	Ød	ØE	F	G	schwarz black Art.-Nr.
12	14	7,5	3	-	-	5	**4307.3131**
12	14	7,5	3,2	-	-	5	4307.1131
12	14	7,5	4	-	-	5	**4307.4131**
15	16	9,5	4	-	-	5	**4309.4131**
15	16	9,5	6	-	-	5	**4309.6131**
15	16	9,5	6,35	-	-	5	4309.7131
20	17	13	4	17	2,5	11	**4311.4131**
20	17	13	6	17	2,5	11	**4311.6131**
20	17	13	6,35	17	2,5	11	4311.7131
28	18,5	17	6	23	4,5	11	**4312.6131**
28	18,5	17	6,35	23	4,5	11	4312.7131





ØA	B	C	Ød	Ød	ØE	F	G	schwarz black Art.-Nr.
12	18	10,5	3	17	15	2,5	9	**4308.3131**
12	18	10,5	3,2	17	15	2,5	9	4308.1131
12	18	10,5	4	17	15	2,5	9	**4308.4131**
15	20	12	4	20	18	2,5	9	**4310.4131**
15	20	12	6	20	18	2,5	9	**4310.6131**
15	20	12	6,35	20	18	2,5	9	4310.7131

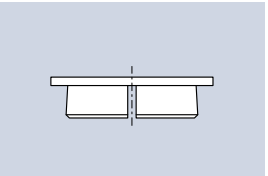
Abdeckkappen matt

Caps mat

Technische Daten
Werkstoff: ABS

General Technical Data
Material: ABS

Abdeckkappe passend zu Knopf-ØA · Cap fits to knob-ØA						
Farbe · Color		Strichanzeige Indicator mark	Ø12 · Art.-Nr.	Ø15 · Art.-Nr.	Ø20 · Art.-Nr.	Ø28 · Art.-Nr.
	red	ohne · without	**4307.0021**	**4309.0021**	**4311.0021**	**4312.0021**
	black	ohne · without	**4307.0031**	**4309.0031**	**4311.0031**	**4312.0031**
	grey	ohne · without	**4307.0041**	**4309.0041**	**4311.0041**	**4312.0041**
	red	black	4307.0121	4309.0121	4311.0121	4312.0121
	black	white	4307.0131	**4309.0131**	4311.0131	4312.0131
	grey	black	4307.0141	4309.0141	4311.0141	4312.0141



4307.../ 4309.../ 4311.../ 4312...

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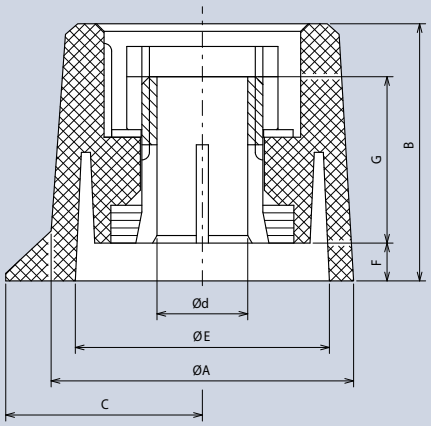
Kunststoff Drehknöpfe glänzend mit Spannzangenbefestigung

Plastic Turning Knobs bright with Collet Fixing

Technische Daten
Werkstoff: ABS

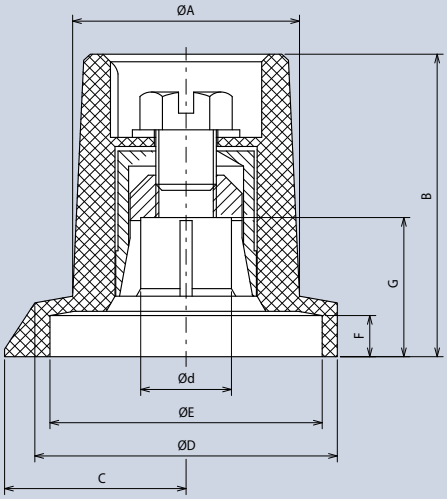
General Technical Data
Material: ABS





ØA	B	C	Ød	ØE	F	G	schwarz black Art.-Nr.
12	14	7,5	3	-	-	5	4307.3133
12	14	7,5	3,2	-	-	5	4307.1133
12	14	7,5	4	-	-	5	4307.4133
15	16	9,5	4	-	-	5	4309.4133
15	16	9,5	6	-	-	5	4309.6133
15	16	9,5	6,35	-	-	5	4309.7133
20	17	13	4	17	2,5	11	4311.4133
20	17	13	6	17	2,5	11	**4311.6133**
20	17	13	6,35	17	2,5	11	4311.7133
28	18,5	17	6	23	4,5	11	**4312.6133**
28	18,5	17	6,35	23	4,5	11	4312.7133





ØA	B	C	Ød	ØD	ØE	F	G	schwarz black Art.-Nr.
12	18	10,5	3	17	15	2,5	9	4308.3133
12	18	10,5	3,2	17	15	2,5	9	4308.1133
12	18	10,5	4	17	15	2,5	9	4308.4133
15	20	12	4	20	18	2,5	9	4310.4133
15	20	12	6	20	18	2,5	9	4310.6133
15	20	12	6,35	20	18	2,5	9	4310.7133

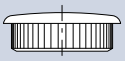
Abdeckkappen glänzend

Caps bright

Technische Daten
Werkstoff: PC (Ø 12); PP (Ø 15, 20, 28)

General Technical Data
Material: PC (Ø 12); PP (Ø 15, 20, 28)

Abdeckkappe passend zu Knopf-ØA · Cap fits to knob-ØA					
Farbe · Color		Ø12 · Art.-Nr.	Ø15 · Art.-Nr.	Ø20 · Art.-Nr.	Ø28 · Art.-Nr.
	red	**499.642**	**331.662**	**332.662**	**333.662**
	black	**499.643**	**331.663**	**332.663**	**333.663**
	grey	**499.644**	**331.664**	**332.664**	**333.664**
	blue	**499.646**	331.666	**332.666**	333.666
	yellow	**499.647**	331.667	**332.667**	333.667
	green	**499.648**	331.668	**332.668**	333.668



499.../331.../332.../333...

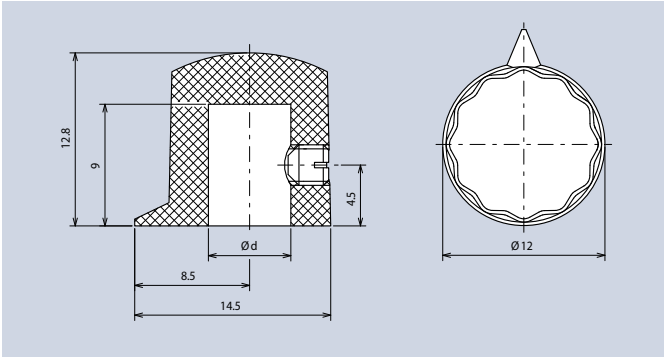
Kunststoff Drehknöpfe mit Gewindestiftbefestigung

Plastic Turning Knobs with setscrew fixing

Technische Daten	General Technical Data
Werkstoff: ABS	Material: ABS

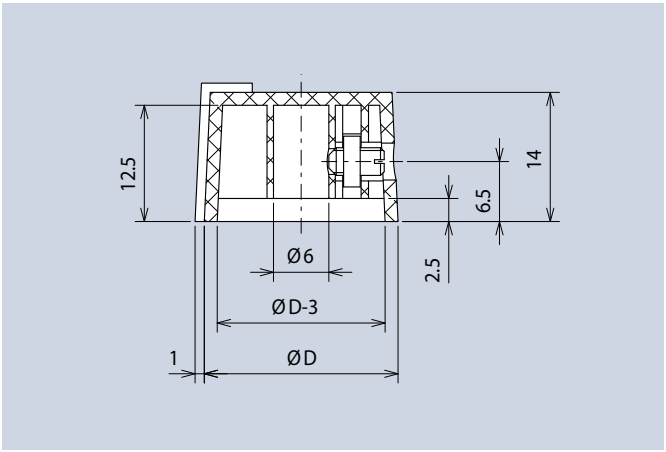


Ød	Art.-Nr.
4	**408.41**
6	**408.61**





ØD	Art.-Nr.
17	**4458.6317**
21	**4458.6321**
28	**4458.6328**



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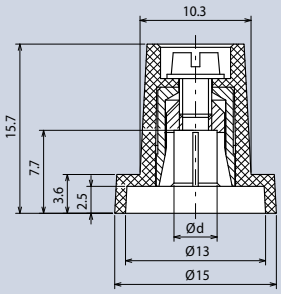
Kunststoff Knebelknöpfe mit Spannzangenbefestigung

Plastic Wing Knobs with Collet Fixing

Technische Daten	General Technical Data
Werkstoff: PA	Material: PA

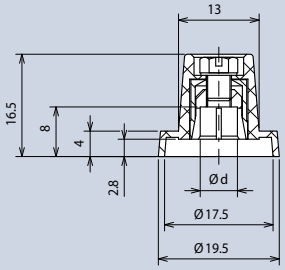


Ød	schwarz · black Art.-Nr.
3	355.31
4	355.41



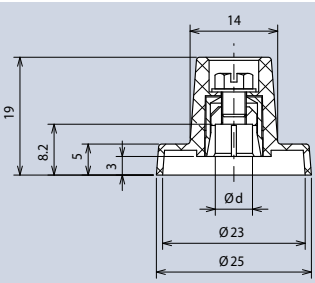


Ød	schwarz · black Art.-Nr.
4	352.41
6	352.61



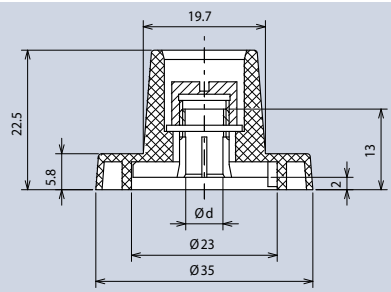


Ød	schwarz · black Art.-Nr.
6	353.61





Ød	schwarz · black Art.-Nr.
6	354.61

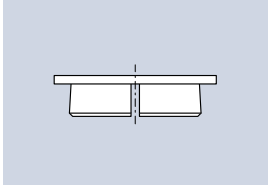


Abdeckkappen glänzend

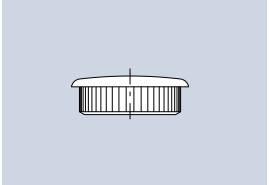
Caps bright

Technische Daten	General Technical Data
Werkstoff: ABS (4129.x); PC (499.x); PP (332.x)	Material: ABS (4129.x); PC (499.x); PP (332.x)

Abdeckkappe passend zu Knopf · Cap fits to knob				
Farbe · Color		355... · Art.-Nr.	352/353... · Art.-Nr.	354... · Art.-Nr.
	red	4129.062	499.642	332.662
	black	4129.063	499.643	332.663
	grey	4129.064	499.644	332.664
	blue	-	499.646	332.666
	yellow	-	499.647	332.667
	green	-	499.648	332.668



4129...



499.../ 332...

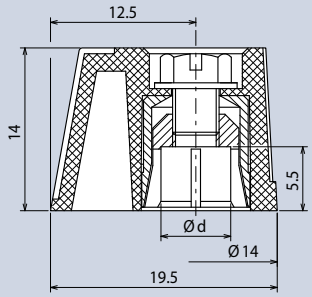
Kunststoff Zeigerknöpfe mit Spannzangenbefestigung

Plastic Pointer Knobs with Collet Fixing

Technische Daten	General Technical Data
Werkstoff: ABS	Material: ABS

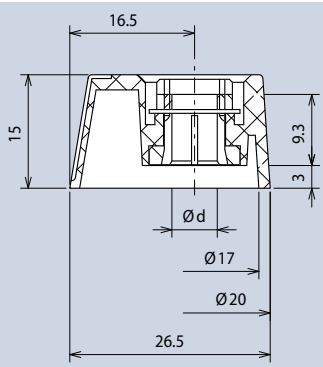


Ød	Art.-Nr.
4	**427.411**
6	**427.611**



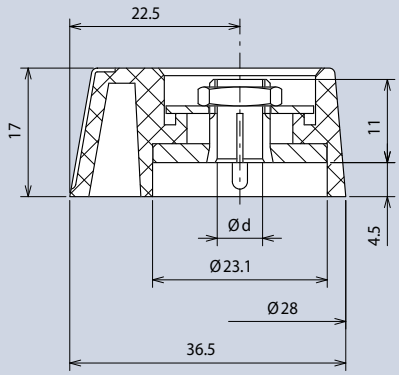


Ød	Art.-Nr.
6	**428.611**





Ød	Art.-Nr.
6	**429.611**

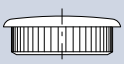


Abdeckkappen glänzend

Caps bright

Technische Daten	General Technical Data
Werkstoff: PC (499.x); PP (332.x and 333.x)	Material: PC (499.x); PP (332.x and 333.x)

Abdeckkappe passend zu Knopf · Cap fits to knob				
Farbe · Color		427 ... · Art.-Nr.	428 ... · Art.-Nr.	429 ... · Art.-Nr.
	red	**499.642**	**332.662**	**333.662**
	black	**499.643**	**332.663**	**333.663**
	grey	**499.644**	**332.664**	**333.664**
	blue	**499.646**	**332.666**	333.666
	yellow	**499.647**	**332.667**	333.667
	green	**499.648**	**332.668**	333.668



499.../332.../333...

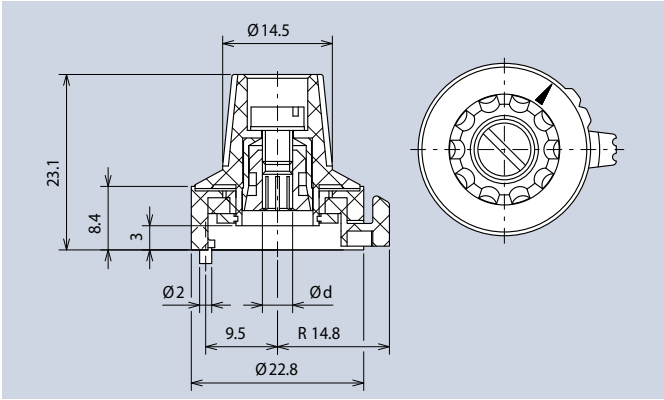
Kunststoff Feststellknöpfe mit Spannzangenbefestigung

Plastic Locking Knobs with Collet Fixing

Technische Daten	General Technical Data
Werkstoff: ABS	Material: ABS

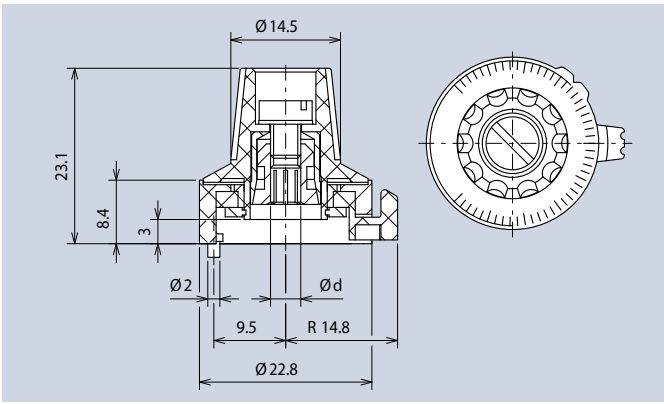


Markierung · marking	Ød	Art.-Nr.
ohne · without	4	4331.4030
ohne · without	6	4331.6030
mit · with	4	4331.4031
mit · with	6	**4331.6031**



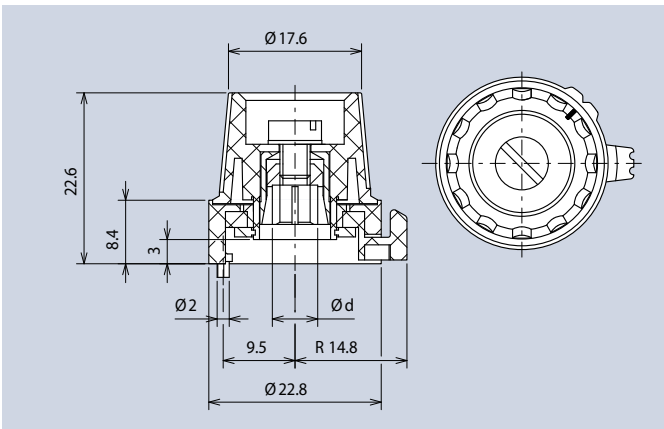


Skaleneinteilung · dial setting	Ød	Art.-Nr.
mit · with	4	4331.4032
mit · with	6	**4331.6032**





Markierung · marking	Ød	Art.-Nr.
ohne · without	6	**4332.6030**
mit · with	6	**4332.6031**

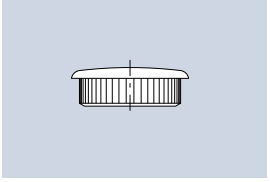


Abdeckkappen glänzend

Caps bright

Technische Daten	General Technical Data
Werkstoff: PC (499.x); PP (332.x)	Material: PC (499.x); PP (332.x)

Abdeckkappe passend zu Knopf · Cap fits to knob			
Farbe · Color		4331 ... · Art.-Nr.	4332 ... · Art.-Nr.
	red	**499.642**	**332.662**
	black	**499.643**	**332.663**
	grey	**499.644**	**332.664**
	blue	**499.646**	**332.666**
	yellow	**499.647**	**332.667**
	green	**499.648**	**332.668**



499.../332...

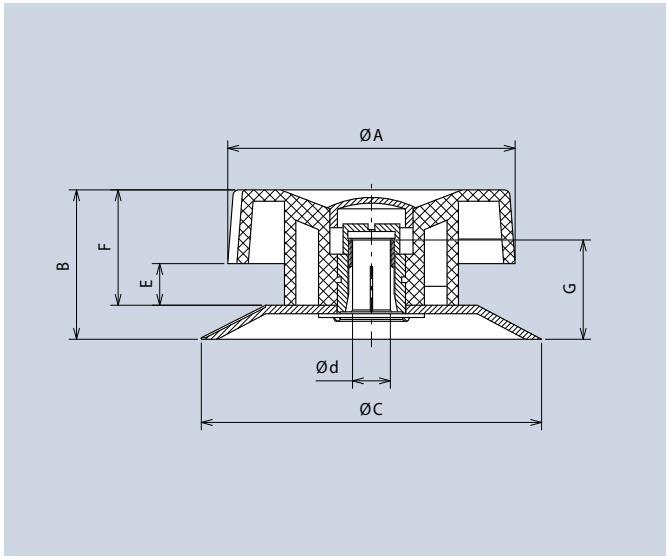
Kunststoff Stellknöpfe

Plastic Adjusting Knobs

Technische Daten	General Technical Data
Werkstoff: ABS	Material: ABS



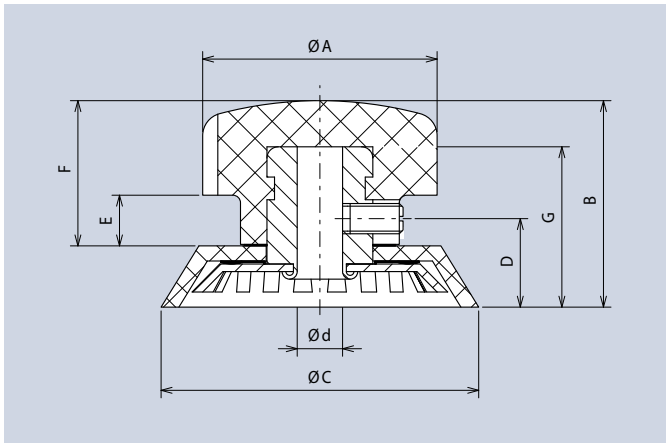
mit Spannzangenbefestigung · with collet fixing							
ØA	B	ØC	Ød	E	F	G	Art.-Nr.
76	40	90	8	11	30,5	28	473.81
76	40	90	10	11	30,5	28	**473.91**
50	35,5	58	6	11	26	28	**474.61**
50	35,5	58	8	11	26	28	**474.81**
50	35,5	58	10	11	26	28	**474.91**
38	28	42	6	8	20	13	**475.61**
28	24,5	31,5	6	6	18	10	**476.61**
19	19	21	6	5	16	8	**477.61**





mit Gewindestiftbefestigung · with setscrew fixing									
ØA	B	ØC	Ød	D	E	F	G	Z*	Art.-Nr.
19	16	21	6	6,2	5	12	13,2	2	**320.621**
25	22	31,5	6	9,5	6	15	16,6	1	**321.611**
31	27	42	6	11,5	6,5	19	21,2	1	**322.611**

* Anzahl der Gewindestifte zur Knopfbefestigung
* Number of setscrews for knob fixing



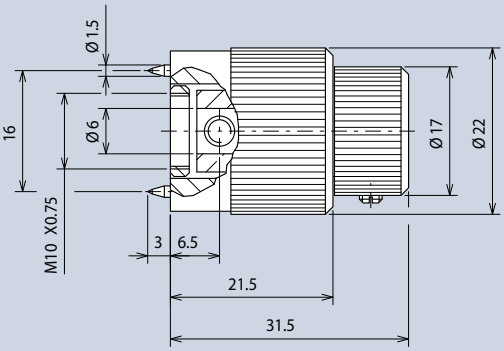
Grob-Fein-Einstelltriebe mit Aluminium Drehknöpfen





Ausführung Type	Übersetzung Ratio	Drehmoment Torque	Art.-Nr.
Aluminium eloxiert Aluminium anodized	6:1	ca. 8Ncm	**125.3**
Aluminium schwarz eloxiert Aluminium black anodized	6:1	ca. 8Ncm	6125.3066

Coarse-Fine Setting Drives with Aluminium Turning Knobs

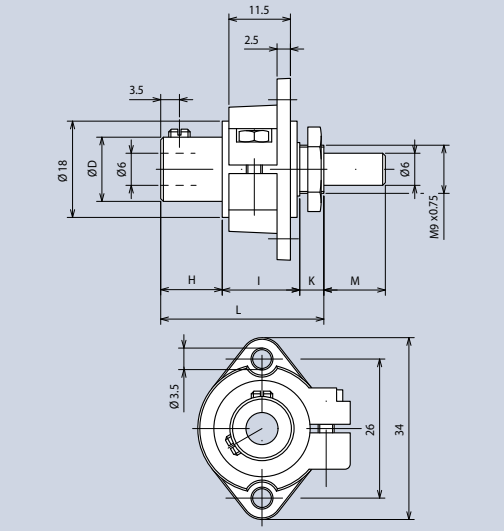


Präzisions-Einstelltriebe



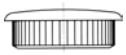
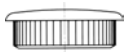
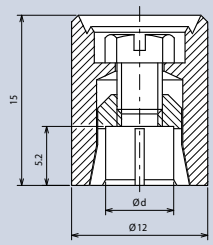
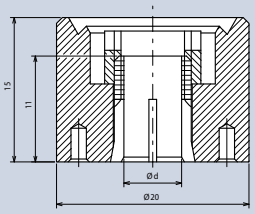
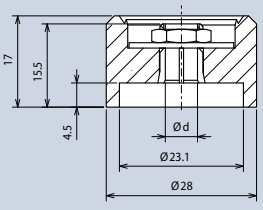
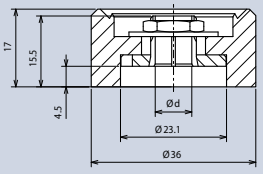
ØD	H	I	K	L	M	Übersetzung Ratio	Drehmoment Torque	Art.-Nr.
12	11,5	15	7,5	34	8,5	6:1	20Ncm ± 10%	**101.2**
12	12	17,5	4,5	34	12	10:1	20Ncm ± 10%	**101.5**

Precision Setting Drives



Aluminium Drehknöpfe mit Spannzangenbefestigung

Aluminium Turning Knobs with Collet Fixing

Knöpfe · Knobs							Abdeckkappen · Caps	
Farbenschlüssel · Color Key rot · red blau · blue schwarz · black gelb · yellow grau · grey grün · green		Ø d	M Ncm	 alufarben eloxiert alu-decorated anodized	 schwarz eloxiert black anodized	 ohne Markierung without marking	 mit Markierung with marking
		4 6	100 150	**531.4** **531.6**	**531.43** **531.603**	**499.642** **499.643** **499.644**	531.142 **531.143** 531.144
		6	180	**532.6**	**532.603**	**332.662** **332.663** **332.664**	532.662 **532.663** 532.664
		6	180	**533.6**	**533.603**	**333.662** **333.663** **333.664**	533.662 **533.663** 533.664
		6	180	**534.6**		**334.662** **334.663** **334.664**	**534.662** **534.663** **534.664**

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Zubehör

Accessories

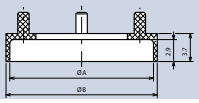
Mutterabdeckungen · Nut Coverings



ohne Zeiger
without Pointer



mit Zeiger
with Pointer

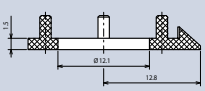


■ 332.120

■ 332.100
■ 332.101
■ 332.102

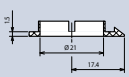
Zeiger · Pointers





■ 4332.100

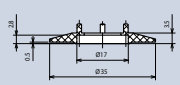
■ 333.100
■ 333.101
■ 333.102



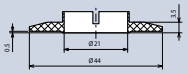
■ 334.100
■ 334.101
■ 334.102

Zeigerscheiben · Pointer Dials

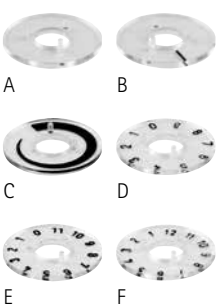


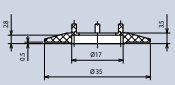


■ 332.250

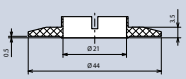


■ 333.250

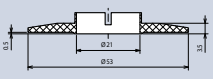




A ... 332.200
B ... 332.201
C ... 332.202
D ... 332.203
E ... 332.204
F ... 332.205



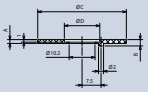
A ... 333.200
B ... 333.201
C ... 333.202
D ... 333.203
E ... 333.204
F ... 333.205



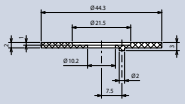
A ... 334.200
B ... 334.201

Grundplatten · Base Plates





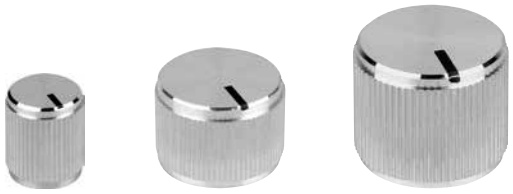
■ 332.300



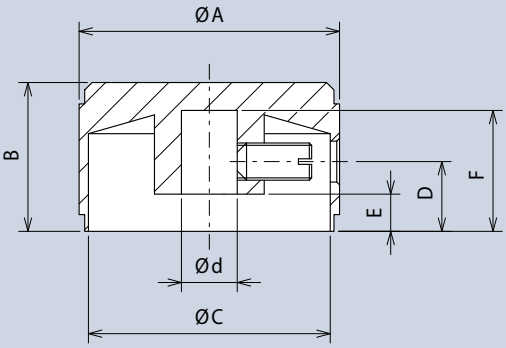
■ 333.300

Aluminium Drehknöpfe mit Gewindestiftbefestigung

Aluminium Turning Knobs with Setscrew Fixing

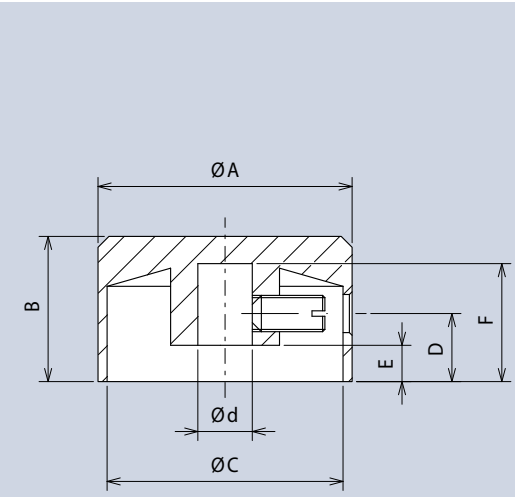


schutzlackiert · protective finish							
ØA	B	ØC	Ød	D	E	F	Art.-Nr.
12	14	11	4	6	2,5	11	5551.4612
12	14	11	6	6	2,5	11	**5551.6612**
17	14	15	6	8,5	6	13	**5552.6612**
20	14	18	6	7,5	3,5	12	**5553.6612**
24	15	21,5	6	7,5	4	12	**5554.6612**
28	16	26	6	7,5	4	13	**5555.6612**
35	18	31	6	8	3,5	15	**5556.6612**





eloxiert · anodized								
ØA	B	ØC	Ød	D	E	F	ohne Strichanzeige without Indicator	mit Strichanzeige with Indicator
8	10	-	4	3	-	8	**504.41**	**504.411**
12	12	11	4	5	2,5	10,5	**505.41**	**505.411**
12	12	11	6	5	2,5	10,5	**505.61**	**505.611**
17	13	15	6	7,5	5	12	**506.61**	**506.611**
20	14	18	4	7,5	3,5	11,5	**507.41**	**507.411**
20	14	18	6	7,5	3,5	11,5	**507.61**	**507.611**
24	15	21,5	6	7,5	4	12	**508.61**	**508.611**
28	16	26	6	7,5	4	13	**509.61**	**509.611**
35	18	31	6	8	3,5	15	539.61	**539.611**
schwarz eloxiert · black anodized								
ØA	B	ØC	Ød	D	E	F	ohne Strichanzeige without Indicator	mit Strichanzeige with Indicator
8	10	-	4	3	-	8	**504.413**	**504.4131**
12	12	11	4	5	2,5	10,5	**505.413**	**505.4131**
12	12	11	6	5	2,5	10,5	**505.613**	**505.6131**
17	13	15	6	7,5	5	12	**506.613**	**506.6131**
20	14	18	4	7,5	3,5	11,5	**507.413**	**507.4131**
20	14	18	6	7,5	3,5	11,5	**507.613**	**507.6131**
24	15	21,5	6	7,5	4	12	**508.613**	**508.6131**
28	16	26	6	7,5	4	13	**509.613**	**509.6131**
35	18	31	6	8	3,5	15	**539.613**	**539.6131**



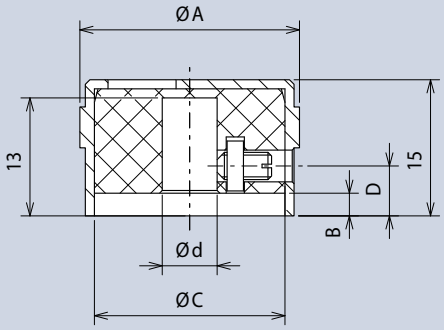
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Aluminium Drehknöpfe mit Gewindestiftbefestigung

Aluminium Turning Knobs with Setscrew Fixing

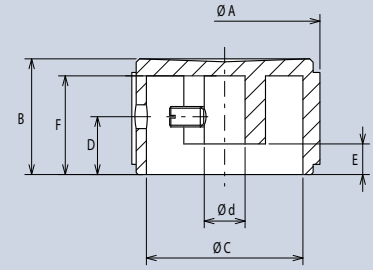


ØA	B	ØC	D	Ød	Art.-Nr.
15	-	-	4	4	**5615.4614**
15	-	-	4	6	**5615.6614**
20	2,5	17	5,5	6	**5616.6614**
24	2,5	21	5,5	6	**5617.6614**

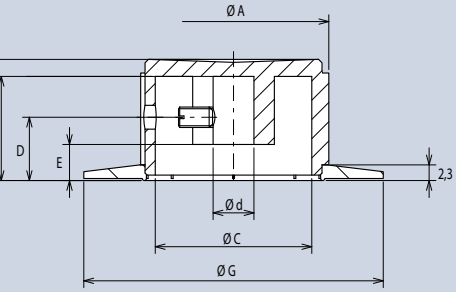




schutzlackiert, ohne Scheibe · protective finish, without dial								
ØA	B	ØC	Ød	D	E	F	ØG	Art.-Nr.
20	15	16	6	7,5	3,5	12,5	-	**5572.6000**
28	17	23	6	8,5	4,5	14,5	-	**5574.6000**



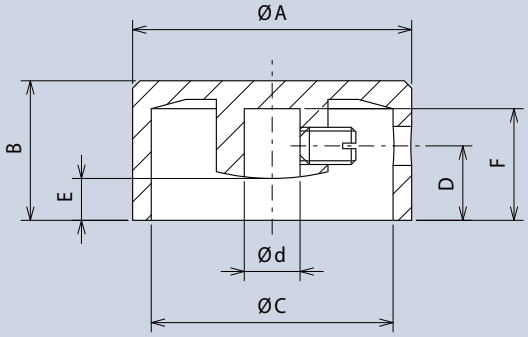
schutzlackiert, mit Scheibe, ohne Markierung protective finish, with dial, without mark								
ØA	B	ØC	Ød	D	E	F	ØG	Art.-Nr.
20	15,8	16	6	8,3	4,3	13,3	32	**5572.6100**
28	17,8	23	6	9,3	5,3	15,3	44	**5574.6100**
schutzlackiert, mit Scheibe, mit Markierung protective finish, with dial, with mark								
ØA	B	ØC	Ød	D	E	F	ØG	Art.-Nr.
20	15,8	16	6	8,3	4,3	13,3	32	**5572.6110**
28	17,8	23	6	9,3	5,3	15,3	44	**5574.6110**



Aluminium Drehknöpfe mit Gewindestiftbefestigung

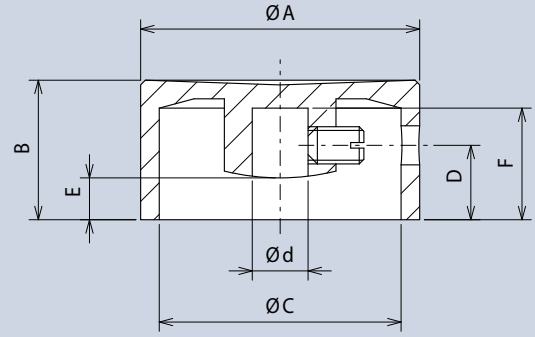
Aluminium Turning Knobs with Setscrew Fixing





schutzlackiert, ohne Strichanzeige · protective finish, without indicator mark							
ØA	B	ØC	Ød	D	E	F	Art.-Nr.
8	15	-	4	6	-	13,5	510.41
12	15	11	6	6	2,5	13,5	511.61
20	15	18	6	7,5	3,5	12	512.61
30	15	26	6	8	4,5	12	513.61
40	15	36	6	7,5	3	12	514.61
50	15	46	6	7,5	3	12	515.61
schutzlackiert, mit Strichanzeige (rot) · protective finish, with indicator mark (red)							
ØA	B	ØC	Ød	D	E	F	Art.-Nr.
8	15	-	4	6	-	13,5	**520.411**
12	15	11	6	6	2,5	13,5	**521.611**
20	15	18	6	7,5	3,5	12	**522.611**
30	15	26	6	8	4,5	12	**523.611**
40	15	36	6	7,5	3	12	**524.611**
50	15	46	6	7,5	3	12	525.611





schutzlackiert, mit Strichanzeige (schwarz) protective finish, with indicator mark (black)							
ØA	B	ØC	Ød	D	E	F	Art.-Nr.
8	15	-	4	6	-	13,5	**520.4191**
12	15	11	6	6	2,5	13,5	**521.6191**
20	15	18	6	7,5	3,5	12	**522.6191**
30	15	26	6	8	4,5	12	**523.6191**
40	15	36	6	7,5	3	12	**524.6191**
50	15	46	6	7,5	3	12	525.6191

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Aluminium Drehknöpfe mit Gewindestiftbefestigung

Aluminium Turning Knobs with Setscrew Fixing

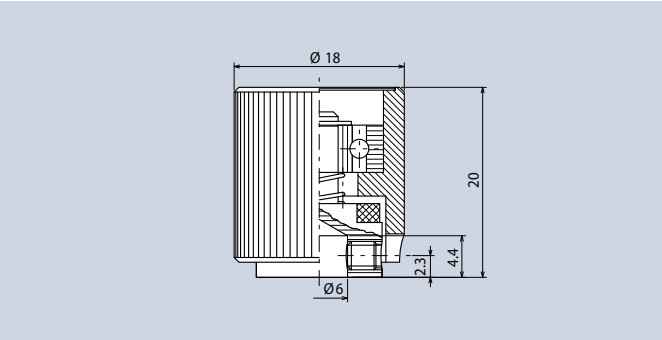
Technische Daten	Technical Data
Knopf: eloxiert mit eingelegter schwarzer Kunststoffkappe	Knob: anodized with inserted black plastic cap
Zeigerscheibe: transparentes Thermoplast mit schwarzer Strichanzeige	Indicator dial: transparent Thermoplastic with black indicator mark

Ein Fixierknopf zur Sicherung von Einstellwerten, der in eingedrücktem Zustand über eine Reibkupplung die Achse des Bauelements betätigt. In nicht gedrücktem Zustand läuft der Knopf ohne Mitnahmemoment frei.

A fixing knob to secure settings, which operates the shaft of the component via a friction clutch when pressed. When not pressed, the knob runs freely without any lock-in torque.

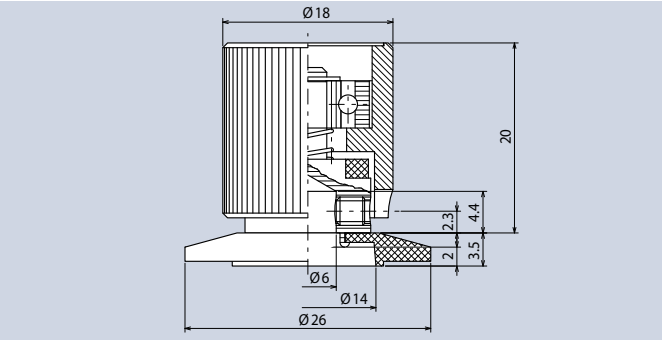


Art.-Nr.	538.62





Art.-Nr.	538.621

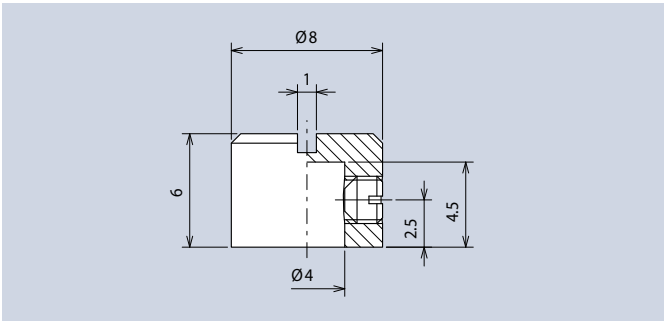


Messing Drehknöpfe für Schraubendreherbetätigung

Turning Knobs for Screwdriver Actuating

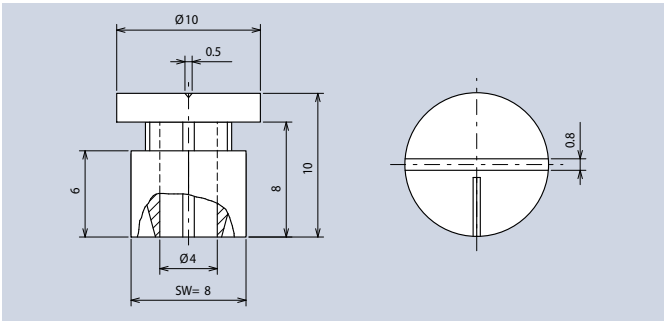


Messing hochglanz-verchromt · Brass high-gloss chrome-plated	
Art.-Nr.	517.4





Messing vernickelt · Brass nickel-plated	
Art.-Nr.	516.4

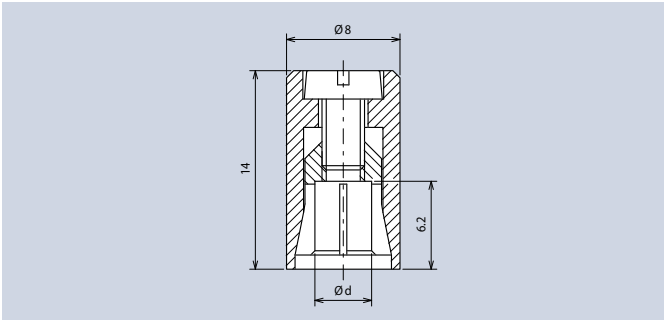


Messing Drehknöpfe mit Spannzangenbefestigung

Turning Knobs with Collet Fixing



Messing hochglanz-verchromt · Brass high-gloss chrome-plated	
Ød	Art.-Nr.
3	487.3
4	487.4



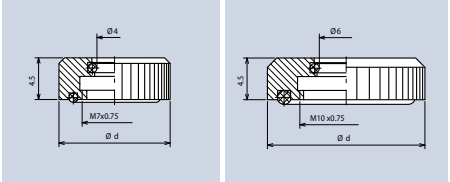
Rändelmuttern für wasserdichte Frontplattenmontage

Sealed Knurled Face Nuts for Waterproof Front-Panel Mounting

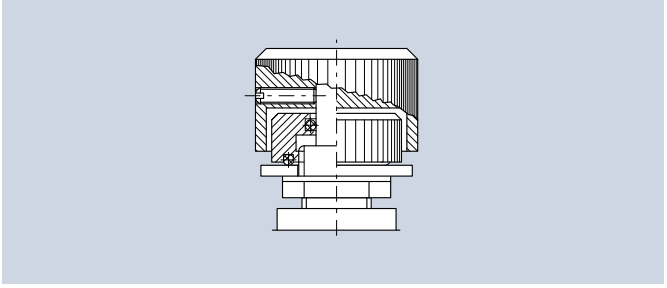
z.B. für Schalter und Potentiometer

e.g. for switches and potentiometers





Aluminium eloxiert · Aluminium anodized	
Ød	Art.-Nr.
12	6600.0402
17	6601.0403



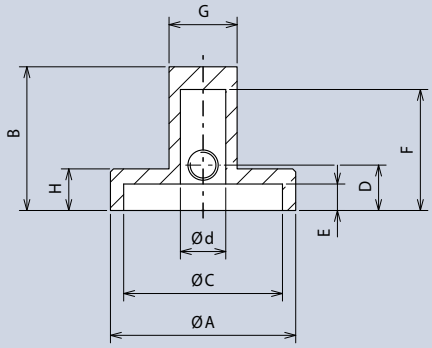
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Aluminium Knebelknöpfe mit Gewindestiftbefestigung

Aluminium Wing Knobs with Setscrew Fixing

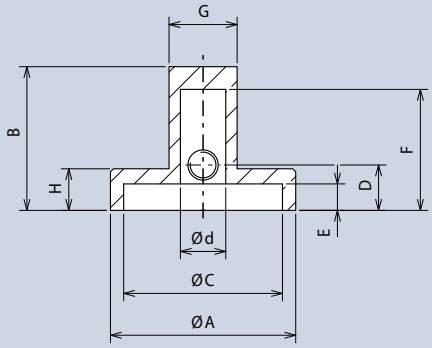


schutzlackiert · protective finish									
ØA	B	ØC	D	E	F	G	H	Ød	Art.-Nr.
12,2	14	10,2	6	3,2	12,7	6	4	3	5580.3611
12,2	14	10,2	6	3,2	12,7	6	4	4	5580.4611
17,4	15	15	6	3	13	6	4	4	5581.4611
20,5	17,3	18	8	3,5	15,5	9	5	4	5582.4611
20,5	17,3	18	8	3,5	15,5	9	5	6	**5582.6611**
24,5	19	21	8	3,5	16	10	5,5	6	**5583.6611**





schwarz pulverbeschichtet · black powder coated									
ØA	B	ØC	D	E	F	G	H	Ød	Art.-Nr.
12,2	14	10,2	6	3,2	12,7	6	4	3	5580.3631
12,2	14	10,2	6	3,2	12,7	6	4	4	**5580.4631**
17,4	15	15	6	3	13	6	4	4	**5581.4631**
20,5	17,3	18	8	3,5	15,5	9	5	4	5582.4631
20,5	17,3	18	8	3,5	15,5	9	5	6	**5582.6631**
24,5	19	21	8	3,5	16	10	5,5	6	**5583.6631**

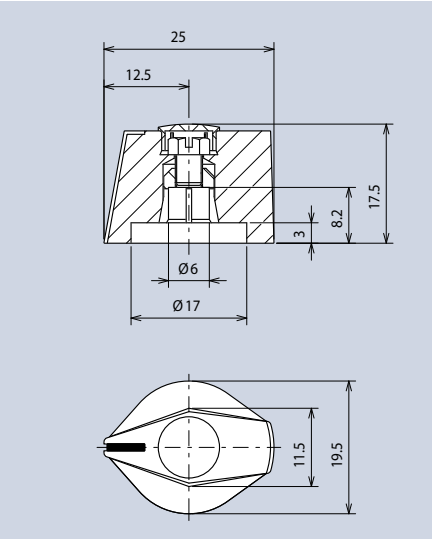


Aluminium Zeigerknöpfe mit Spannzangenbefestigung

Aluminium Pointer Knobs with Collet Fixing



Ausführung · Version	Art.-Nr.
aluminiumfarben lackiert aluminium gloss painted	**499.60**
matt schwarz lackiert mat black painted	**499.603**



Mechanisches Zubehör

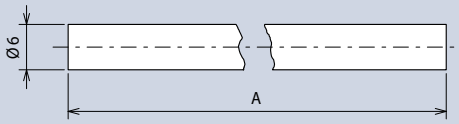
Mechanical Accessories

Verlängerungsachsen
Hart-PVC schwarz



A	Art.-Nr.
60	**724.11**
80	**724.21**
100	**724.31**
120	**724.41**

Extension Shafts
Rigid PVC black

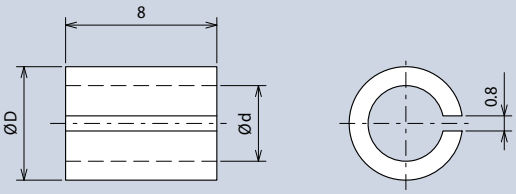


Reduzierrohr
Messing verzinkt



Ød	ØD	Art.-Nr.
4	6	**640**
3	4	**6640.1431**

Reducing Sleeve
Brass zinced

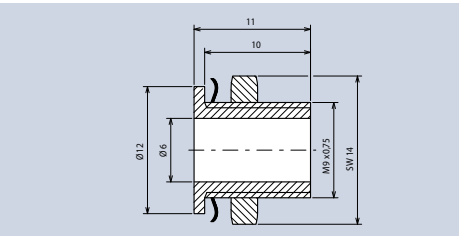


Achsdurchführung
Messing vernickelt



Art.-Nr.	729

Shaft Lead-Through
Brass nickel-plated



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Kupplungen

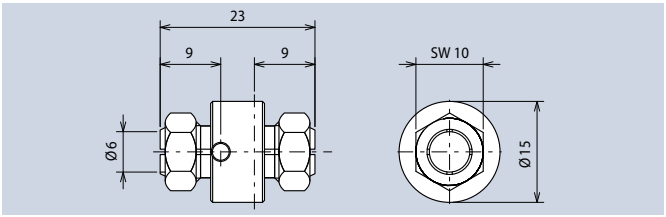
Couplings

Gelenkkupplung
Achskupplung mit Spannzangenbefestigung. Max. Drehmoment 120Ncm. Max. 15° Winkelabweichung. Max. Achsversatz 1mm. Werkstoff Messing vernickelt.



Art.-Nr.	648.66

Jointed Coupling
Shaft coupling with retaining chucks. Max. transmission torque 120Ncm. Max. 15° angular deviation. Max. shaft offset 1mm. Material brass nickel-plated.

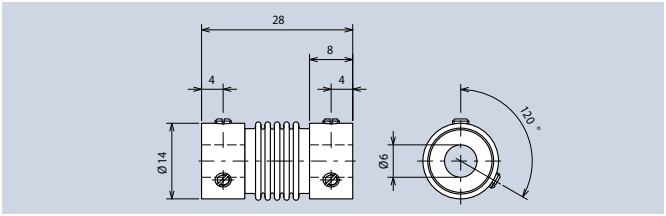


Gelenkkupplung
Max. Drehmoment 120Ncm. Max. 15° Winkelabweichung. Lebensdauer 106 Lastwechsel bei 3° Winkelabweichung. Werkstoff Kupplungskörper Edelstahl. Werkstoff Befestigungsbuchsen Messing.



Art.-Nr.	717.6

Jointed Coupling
Max. transmission torque 120Ncm. Max. 15° angular deviation. Service life 106 load alternations under 3° of angular deviation. Material coupling case steel precious. Material connecting sleeves brass.

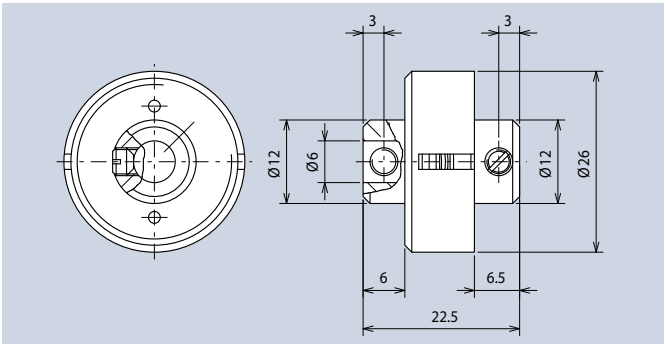


Rutschkupplung
Diese Spezialkupplung ist auf beliebige Drehmomente bis max. 30Ncm einstellbar. Werkstoff: Aluminium eloxiert.



Art.-Nr.	716

Friction Clutch
This special type of clutch can be adjusted to any desired torque with a maximum of 30Ncm. Material: aluminum anodized.

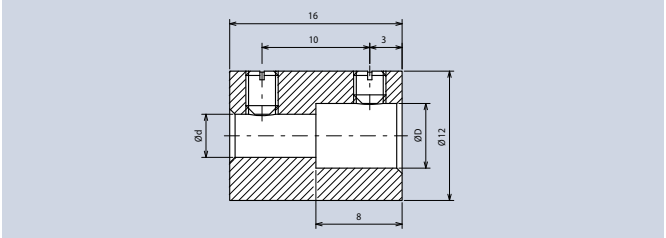


Achskupplungen
Messing



Ød	ØD	Art.-Nr.
4	4	720.4
6	6	720.6
4	6	720.64

Shaft Couplings
Brass



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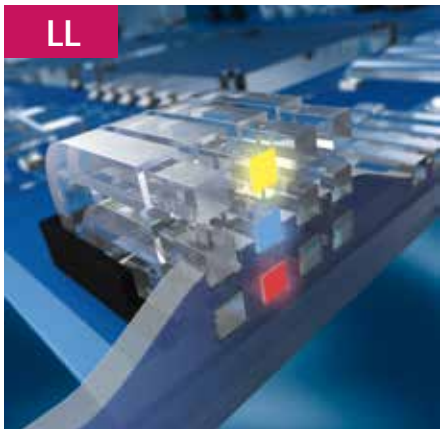
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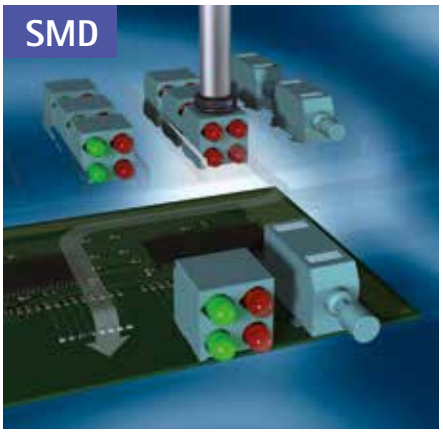
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Standard Component Ranges



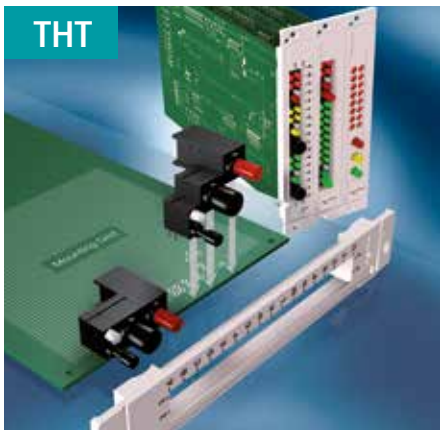
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Light Guide Systems



FEL / SMD Standardelemente
FEL / SMD Components



Optoelektronische Bauelemente
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