

Offset Stationary Handles / Ball Knobs

Levers / Handwheels / Knobs

Offset Stationary Handles

RoHS 10

Type		Handle		Lever	
Handle Type	Ball Knobs	Material	Surface Treatment	Material	Surface Treatment
LAGN	LAG	Phenol Resin (Black)		1045 Carbon Steel or Equivalent	Cathodic Coating (Black)
LAGNS	LAGS			304 Stainless Steel	

ⓘ Tighten the nuts after positioning the lever.

For M5

Handle Type

LAGN
LAGNS

Ball Knob Type

LAG
LAGS

Part Number	Type	M (Coarse)	L ₁	L ₂	A° (Tolerance ±2°)	L ₃	d	D		H	
								LAGN / LAGNS	LAG / LAGS	LAGN / LAGNS	LAG / LAGS
Handle Type	LAGN	5	30	60	30	12	6	17	25	40	24
	LAGNS	6									
	LAG	8				15	8				
Ball Knobs	LAG	10	30-100 10 mm Increment	60-100 10 mm Increment	30 45 60 90	20	10	21	30	50	29
	LAGS	12				25	12	25	35	65	34

Part Number Example

Part Number - L₁ - L₂ - A°

LAGN5 - 30 - 60 - 30

LAGS10 - 80 - 100 - 90

Ball Knobs

RoHS 10

Type	Material	Surface Treatment	Screw Material
PBA	(Black) Phenol Resin	—	—
PCA	(Red) Melamine Resin	—	Brass (Insert)
BGW	EPDM Synthetic Rubber (Mat Black)	—	Brass (Insert)
BKS	304 Stainless Steel	Buff Polished	—
BKA	Aluminum Alloy	Polishing	—
BKAW		Clear Anodize	—
BKAB		Black Anodize	—

Plastic, No Insert

PBA
Stainless Steel
BKS

Aluminum

BKA
BKAW
BKAB

Plastic, With Insert

PCA

Rubber, With Insert

BGW

*Selectable D dimensions are only for Plastic Type

Plastic (Black: Phenol / Red: Melamine)

Part Number	Type	M (Coarse)	D	Ball Color	H	Lf		Mass (g)
						PBA	PCA	PBA PCA
PBA No Insert	6		20	R Red	18	10	10	7
			25		23	10	10	15
			30		28	16	10	20
	8	20	18		10	7		
		25	23		12	15		
		30	28		16	12	30	
PCA Brass Insert	10		35	B Black	32	16	12	40
			30		28	18	15	30
			35		32	18	15	40
	12	40	37		18	15	55	
		40	37		18	15	50	

ⓘ The default color will be black unless specified otherwise.

Rubber

Part Number	Type	M (Coarse)	D	H	Lf	Mass (g)
BGW		6	20	18	10	10
		8	25	22.5	12.5	15
		10	32	29	16	25
		12	40	36	20	40

Stainless Steel / Aluminum

Part Number	Type	M (Coarse)	D	H	Lf	Mass (g)	
Stainless Steel	BKS	3	15	*13	*8	13	5
	BKS	4	20	18	9.1	31	11
Aluminum	BKA	5	20	18	9.1	30	11
	BKA	6	25	22.5	11	60	21
	BKAW	8	32	29	14.5	126	43
	BKAB	10	40	37	18	215	85

ⓘ * H dimension and Lf dimension for BKS M3 are 13.5 and 7 respectively.

Part Number Example

Part Number - D - Knob Color

PBA12 - 40 - R

PBA6 - 25 - B

BGW6

BKS3

BKA10

Handles

Non-Rotating / Rotating / Ergonomic / with Cap

Handles - Non-Rotating

RoHS 10

Type	Shape	Handle Material	Screw	
			Material	Surface Treatment
GRAM	Threaded	Phenol	12L14 Carbon Steel	Trivalent Chromate
GRAMS			303 Stainless Steel	—
GRAF	Tapped	Nylon 6	1045 Carbon Steel or Equivalent	Trivalent Chromate
GRAFC	Tapped (Insert)			

Part Number	Type	M (Coarse)	D	D ₂	d	d ₁	d ₂	A	ℓ	H	H ₁	L	L _f	L _{f1}	Mass (g)		
															GRAM / GRAMS	GRAF	GRAFC
GRAM	Threaded	6	17	19	12	8	6.5	1.5	1.8	40	65	13	20	12	16	10	30
GRAMS	Stainless Steel / Threaded	8	21	24	17	11	8.5	2	4.5	50	80	16	26	16	32	20	40
GRAF	Tapped	10	25	28	20	13	10.5	—	—	65	—	20	33	20	61	37	45
GRAFC	Tapped Type Insert	12	28	28	21	16	12.5	2.5	5	85	95	25	40	24	100	61	65

Stainless Steel Handles - Non-Rotating / Rotating

RoHS 10

Type	Handle	Material	Surface Treatment
GRMSN	Stationary	304 Stainless Steel	Electrolytic Polishing
GRMS	Revolving		

Stationary Handle

GRMSN

Revolving Handle

GRMS

Part Number	Type	M (Coarse)	D	d	H	L	W	A	Mass (g)
Stationary	GRMSN	5	10	8	39	6	6.5	6	25
	GRMS	6	13	10	50	7	8	7	55
Revolving	GRMS	8	16	13	60	8	10	8	100
	GRMS	10	20	16	70	10	12	10	180

Ergonomic Handles - Non-rotating / Rotating

Type	Mechanism	Handle		Screw	
		Material	Surface Treatment	Material	Surface Treatment
GRMHF	Stationary	1018 Carbon Steel or Equivalent	Chrome Plating	1018 Carbon Steel or Equivalent	Chrome Plating
GRMK		1018 Carbon Steel or Equivalent	Shot Blasted		
GRMAK	Revolving	2024 Aluminum Alloy	—	Polypropylene	—
GRMKB		—	—		

Stationary Handle

GRMHF

Revolving Handle

GRMK
GRMAK
GRMKB

*Rotational Type Only

Part Number	Type	D	M (Coarse)			d	H	H	W	L	Mass (g)
			GRMK / GRMKB / GRMHF	GRMAK	GRMKB						
Stationary	GRMHF	13	5	8	10	—	49	8	11	30	
	GRMK	16	6	10	10	48.5	55	8	14	48	
Revolving	GRMK	20	8	13	13	62.5	70.7	10	15.5	97	
	GRMAK	25	10	16	16	—	87.3	12	18	192	

Rotating Handles - with Cap

RoHS 10

Type	Handle Material	Material	Screw	Accessories
GRM	Nylon6 (Black)	4137 Alloy Steel	Trivalent Chromate	Disc Spring

ⓘ Only the plastic handle rotates after attaching to a handwheel.

How to Mount

Disc Spring, Handle, Collar, Bolt, Hex Wrench, Cap

Part Number	Type	M (Coarse Thread)	D	d	H	h	L	Mass (g)
GRM		5	18	13	55	18.5	10	25
		6					13	30
		8					15	60
		10					20	100

Part Number Example

Part Number

GRAM12

GRMS6

GRMK13

GRM5

Levers / Handwheels / Knobs