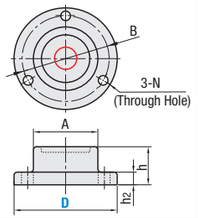
Bubble Levels / Grease Nipples / Hardened Precision Balls

Mounting Bubble Level

SMTP



Material:
5052 Aluminum Alloy
Glass

Surface Treatment:
Black Anodize

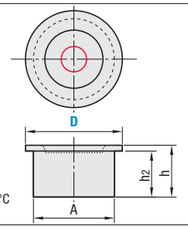
Max. Operating Temp.: 55°C

RoHS 10

Part Number Type	D	A	B	h	h_2	Mounting Hole (N)	Sensitivity
SMTP	28	16	22	10.5	3.5	2	38'12" (R-180)
	32	20	27	12.0	4.0	3	38'12" (R-180)

Embedded Bubble Level

SMH



Material:
ABS Resin Plastic
Glass

Surface Treatment:
Black Anodize

Max. Operating Temp.: 55°C

RoHS 10

Part Number Type	D	A	h	h_2	Sensitivity
SMH	20	16.5	11	9.5	38'12" (R-180)

Bubble Levels

– This bubble level is for mounting on a surface that has already been checked to ensure it is level, and it provides a simple level check. Fit it so that the bubble is stationary within the red circle. (A shim or adjustment mechanism may be required depending on the surface accuracy.)

– Sensitivity: If the bubble shifts 2 mm from the center, the mounting surface is inclined at 38'12" (approximately 0.6 degrees). R–180 is the radius of the curve of the bubble level (in mm).

Part Number Example

Part Number
SMTP28

Grease Nipples

GPA GPAS

RoHS 10

Fig.1

Fig. 1 shows the thread shape of GPA1.

Type	Material	Surface Treatment
GPA	Free-Cutting Brass (C36000 Brass BD)	Nickel Plating
GPAS	303 Stainless Steel	—

GPB

RoHS 10

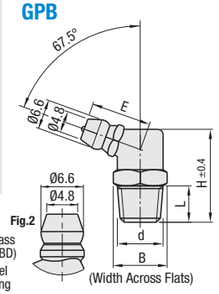


Fig.2

Material: Free-Cutting Brass (C36000 Brass BD)

Surface Treatment: Nickel Plating

Fig. 2 shows the nipple base shape of GPB6 and GPB6A.

GPC

RoHS 10

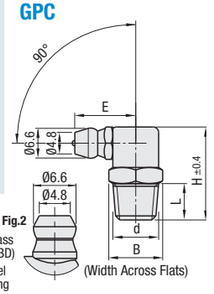


Fig.2

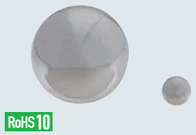
Material: Free-Cutting Brass (C36000 Brass BD)

Surface Treatment: Nickel Plating

Fig. 2 shows the nipple base shape of GPC6 and GPC6A.

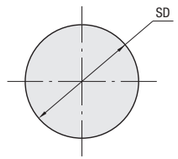
Part Number Type	No.	d	H	L	E	B
GPA GPAS	6	M6 x P0.75	13.5	5	—	7
	6A	M6 x P1.0				
	1	R (PT) 1/8	20	9		10
	2	R (PT) 1/4	25	12		14
GPB	6	M6 x P0.75	16.5	5	10	8
	6A	M6 x P1.0				
	1	R (PT) 1/8	21.5	8	12.5	10
	2	R (PT) 1/4	25	11	14.2	14
GPC	6	M6 x P0.75	17.5	5	10.2	8
	6A	M6 x P1.0				
	1	R (PT) 1/8	21.5	8	12.5	10
	2	R (PT) 1/4	25	11	14.2	14

Hardened Precision Balls



RoHS 10

BLIJ Inch
BLIS Inch
BLMJ mm
BLMS mm



* Class 28 Standards (JIS-B1501) μm

Diameter Deviation	max.	0.7
Sphericity	max.	
Surface Roughness	max.	0.05
Diameter Size Variation of the Lot	max.	1.4

Type	Dimension	Material	Class	Hardness	Standards
BLIJ	Inch	52100 Bearing Steel	28	61–67 HRC min.	JIS B1501
BLIS		440C Stainless Steel		59–66 HRC min.	In accordance with JIS-B1501
BLMJ	mm	52100 Bearing Steel		61–67 HRC min.	JIS B1501
BLMS		440C Stainless Steel		59–66 HRC min.	In accordance with JIS-B1501

Inch Standards Type

Part Number Type	No.	SD (Inch)
BLIJ BLIS	8	1/8
	10	5/32
	12	3/16
	14	7/32
	15	15/64
	16	1/4
	17	17/64
	18	9/32
	20	5/16
	22	11/32
	24	3/8
	26	13/32

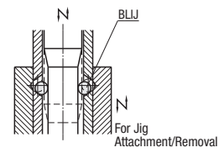
Metric Standards Type

Part Number Type	No.	SD (mm)
BLMJ BLMS	3	3
	3.5	3.5
	4	4
	4.5	4.5
	5	5
	6	6
	8	8

Part Number Example

Part Number
GPA6A
BLIJ16
BLMS3

Application Example

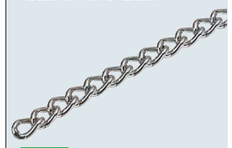


MiSUMi

Stainless Steel Chains

Stainless Steel / Ball / Link

Stainless Steel Chains



RoHS 10

SCHSP

Material: 304 Stainless Steel

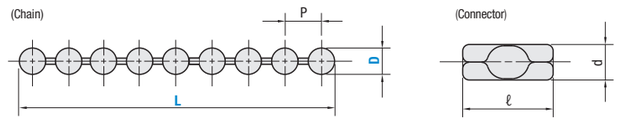
Part Number	L 50 mm Increment	P	A	d	Mass	Allowable Load (Ref.)
SCHSP	100–500	5.5	2.5	1.6	57g/m	9 kg
	550–1000					

The reference applied load is only a guideline.

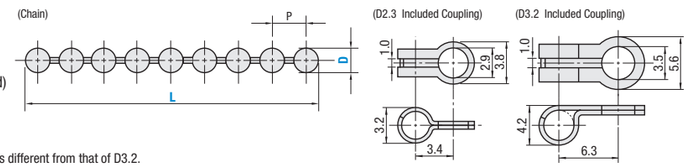
Ball Chains

RoHS 10

BALLC



BALLC-S
(One coupling is included)
BALLC-W
(Two couplings are included)



The shape of D2.3 coupling is different from that of D3.2.

For BALLC-S, coupling is attached to one side; for BALLC-W, to both sides.

Material: 304 Stainless Steel

Part Number Type	D	L 50 mm Increment	P	Allowable Load (Ref.)	Accessories (Connector) d	Accessories (Connector) ℓ
BALLC (One connector is included) BALLC-S (One coupling is included)	2.3	100–500	3.3	4kg	3.0	8
		550–1000				
BALLC-W (Two couplings are included)	3.2	100–500	4.4	6kg	4.3	11
		550–1000				

*Depending on the number of links, the actual L dimension may be slightly longer than the specified dimension.

The reference applied load is only a guideline.

Dimensions of chains and connecting parts are for reference only.

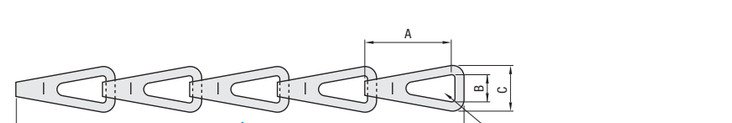
Part Number Example

Part Number	-	L
SCHSP	-	600
BALLC2.3	-	150
BALLC-W3.2	-	200

Link Chain

RoHS 10

CHSP



*Can be attached directly with screws (M3).

Material: 304 Stainless Steel

Part Number Type	No.	L 50 mm Increment	A	B	C	Plate Thickness	Mass	Reference Applied Load
CHSP	4	100–500	15.5	4.2	8	0.8	60 g/m	70 kg
		550–1000						

*Depending on the number of links, the actual L dimension may be slightly longer than the specified dimension. (Connecting parts are not included. Please refer to http://jp.misumi-ec.com/mech/.)

The reference applied load is only a guideline.

Part Number Example

Part Number	-	L
CHSP4	-	100