Rubber Bumpers

Configurable / With Counterbore Hole / L Selectable

Rubber Bumpers – Configurable

RoHS10

Through Hole Type	No Hole Type	Material	Hardness	Color
RBXN	RBCXN	Nitrile Rubber (NBR Nitrile Rubber)	Shore A70	Black
RBXC	RBCXC	Chloroprene Rubber (CR)	Shore A65	Black
RBXU	RBCXU	Low Elasticity Rubber (HANENITE®GP-35LE)	Shore A35	Black
RBXS	RBCXS	Silicon Rubber (SI)	Shore A70	Light Gray
RBXA	RBCXA	Silicon Rubber (SI)	Shore A50	Milky White
RBXF	RBCXF	Fluoro Rubber (FPM)	Shore A80	Black

ⓘ HANENITE® is a registered trademark of Naigai Rubber Industry Co., Ltd.
ⓘ The milky white color of silicone rubber shore A50 is translucent.

D Tolerance

D	Tolerance
6–40	±0.5
41–60	±0.6

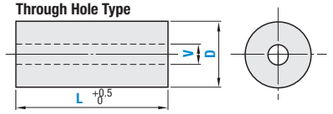
V Tolerance

V	Tolerance
30 or Less	±0.5
31–50	±0.7

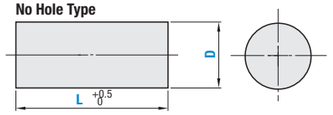
Thickness Condition

L	V
L≤30	V≤D−6
L>30	V≤D−10

Through Hole Type



No Hole Type



ⓘ The tolerances are verified at 23°C ± 2 and 40–80% humidity.

Part Number		1 mm Increment		
		D	L	V (Through Hole Type)
Through Hole Type	No Hole Type	6–15	10–50*	2–9
RBXN, RBXC, RBXU	RBXS, RBXA, RBXF	16–30		4–24
	RBCXN, RBCXC, RBCXU	31–45		8–35
	RBCXS, RBCXA, RBCXF	46–60		10–50

Part Number Example

Part Number	-	D	-	L	-	V
RBXS	-	D28	-	L30	-	V12

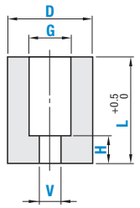
ⓘ The thickness of Through Hole Type (D−V)/2 is restricted by L. Refer to the table (thickness condition) in the figure. If V=2, L≤30.
* L ≤ 30 for RBXU, RBCXU, RBXS, RBCXS, RBCXA, RBXF, RBCXF

Rubber Bumpers – With Counterbore Hole

RoHS10

Type	Material	Hardness	Color
RBZN	Nitrile Rubber (NBR Nitrile Rubber)	Shore A70	Black
RBZC	Chloroprene Rubber (CR)	Shore A65	Black
RBZU	Low Elasticity Rubber (HANENITE®GP-35LE)	Shore A35	Black
RBZS	Silicon Rubber (SI)	Shore A70	Light Gray
RBZA	Silicon Rubber (SI)	Shore A50	Milky White
RBZF	Fluoro Rubber (FPM)	Shore A80	Black
RBZAM	Amber Color Rubber	Shore A45	Amber Color

ⓘ The milky white color of silicone rubber shore A50 is translucent.



D Tolerance

D	Tolerance
40 or Less	±0.5
40–60	±0.7

V / H / G Tolerance

Dimension	Tolerance		
	V	H	G
30 or Less	±0.5	±0.5	±0.5
31–	—	±0.7	±0.6

⊗ When L≤30, V≤G−4
When L>30, V≤G−6

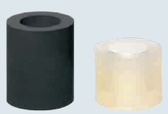
Part Number	1 mm Increment					Available Types				
	D	V	H	G	L	RBZN RBZC	RBZU	RBZS RBZA	RBZF	RBZAM
RBZN Nitrile Rubber RBZC Chloroprene Rubber RBZU Low Elasticity Rubber RBZS Silicon Rubber (SI Shore A70) RBZA Silicon Rubber (SI Shore A50) RBZF Fluoro Rubber (FPM) RBZAM Amber Color Rubber	11–15	3–10	3≤H<L	7–53 G≤D−4	6–30	•	•	•	•	•
			5≤H<L	7–54 G≤D−6	31–50	•	—	•	—	—
	16–30	5–16			6–30	•	•	•	•	•
					31–50	•	—	•	—	—
	31–45	5–25			10–30	•	•	•	•	•
					31–50	•	—	•	—	—
	46–60	5–30			25–30	•	•	•	•	—
					31–50	•	•	•	•	—

ⓘ Amber Color Rubber Type is available up to L20.

Part Number Example

Part Number	-	D	-	V	-	H	-	G	-	L
RBZAM	-	D22	-	V5	-	H10	-	G12	-	L38

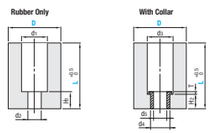
Rubber Bumpers – L-Selectable



RoHS10

Rubber Only	With Collar: Black Oxide	With Collar: Electroless Nickel Plating	With Collar: 304 Stainless Steel	Material	Hardness	Color
RBZNK	RBZNK-C	RBZNK-M	RBZNK-S	Nitrile Rubber (NBR Nitrile Rubber)	Shore A70	Black
RBZCK	RBZCK-C	RBZCK-M	RBZCK-S	Chloroprene Rubber (CR)	Shore A65	Black
RBZUK	RBZUK-C	RBZUK-M	RBZUK-S	Low Elasticity Rubber (HANENITE®GP-35LE)	Shore A35	Black
RBZSK	RBZSK-C	RBZSK-M	RBZSK-S	Silicon Rubber (SI)	Shore A70	Light Gray
RBZAK	RBZAK-C	RBZAK-M	RBZAK-S	Silicon Rubber (SI)	Shore A50	Milky White
RBZFK	RBZFK-C	RBZFK-M	RBZFK-S	Fluororubber (FPM)	Shore A80	Black

ⓘ The milky white color of silicone rubber shore A50 is translucent.



D Tolerance

D	Tolerance
40 or Less	±0.5
50, 60	±0.7

d2, d4, H1, d1 and d3 Tolerance

Dimension	Tolerance		
	d2, d4	H1	d1, d3
30 or Less	±0.5	±0.5	±0.5

Part Number: Type	D	L	(M) Applicable Screw	Rubber Only H1	With Collar: H2	With Collar: Applicable Collar No.	Rubber Only Available Types: RBZNK RBZCK	RBZUK	RBZSK RBZAK	RBZFK	Collar Type Available Types: Black Oxide RBZ_K-C	Electroless Nickel Plating RBZ_K-M	304 Stainless Steel RBZ_K-S
Rubber Only RBZNK (Nitrile Rubber Shore A70) RBZCK (Chloroprene Rubber Shore A65) RBZUK Low Elasticity Rubber (HANENITE®GP-35LE, Shore A35) RBZSK (Silicon Rubber, Shore A70) RBZAK (Silicon Rubber, Shore A50) RBZFK (Fluororubber, Shore A80) With Collar Rubber Selection - Collar Spec. Selection RBZ_K-C (Black Oxide) RBZ_K-M (Electroless Nickel Plating) RBZ_K-S (304 Stainless Steel)	12	12	M3	5	—		•	•	•	•	—	—	—
	15	12 15			5	3					•	•	•
		15 20	M4			4							
	20	20 25		7	7	4A	•	•	•	•	•	•	•
		20 25	M5			5							
	25	20 25	M6	8	8	6	•	•	•	•	•	•	•
		20 25	M8			8							
	30	20 25 30	M6	10	8	6	•	•	•	•	•	•	•
		25 30 40	M8			8							
	40	30 40	M10	12	10	10	•	•	•	•	•	•	•
		30 40 50	M12			12							•
	50	30 40	M10	15		10	•	•	•	•	•	•	•
		40 50	M12			12							•
	60	30 40	M10			10	•	•	•	•	•	•	•
		40 50	M12			12	•	•	•	•	•	•	•

Screw Size	Rubber Only: d1	d2	With Collar: d3	d4	d5	T
M3	6	4	8	5.5	3.5	2
M4	8	5	9.5	6.5	4.5	
M5	9.5	6	11	8	5.5	
M6	11	7	13	9	6.6	
M8	14	9	15.5	11.5	9	
M10	18	11	19	14	11	3
M12	20	14	22	17	14	

Part Number Example

Part Number	-	L	-	M
RBZCK25	-	20	-	M6

Urethane / Rubbers

Spherical / Tapered Tip

Bumpers with spherical and tapered tip are available in a short delivery time. Hole length is configurable for Through Hole Type.
Amber color rubber which provides an excellent mechanical strength and abrasion resistance, highly elastic and tensile is added.

Urethane / Rubbers – Spherical Tip

RoHS10

Through Hole Type	No Hole Type	Material	Hardness	Color
UTRS	CXTRS	Ether Polyurethane	Shore A95	Natural Color
UTRH	CXTRH		Shore A90	
UTRM	CXTRM	Ester Polyurethane	Shore A70	
UTRL	CXTRL		Shore A50	
UBFN	CXBFN	Nitrile Rubber (NBR Nitrile Rubber)	Shore A70	Black
UBFS	CXBFS	Silicon Rubber	Shore A70	Light Gray
UBFU	CXBFU	Low Elasticity Rubber (HANENITE®GP-35LE)	Shore A35	Black
UBFF	CXBFF	Fluoro Rubber	Shore A80	Black

ⓘ HANENITE® is a registered trademark of Naigai Rubber Industry Co., Ltd.
ⓘ Amber Color Rubber is now available online.

V Tolerance

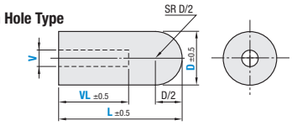
V	Tolerance
30 or Less	±0.2
31–86	±0.5

Thickness Condition

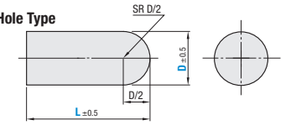
L	V
L≤30	V≤D−4
L>30	V≤D−6

Conditions of L L≥D/2

Through Hole Type



No Hole Type



ⓘ For Through Hole Type, through hole will be machined when VL dimension is not specified.
ⓘ Specification of VL dimension is required. Through hole can be provided, but the bore cannot be stopped at SR.

Urethane Configurable Type

Part Number (x Material Multiplier)			1 mm Increment: D	L	Through Hole Type: V	VL
	Through Hole Type	No Hole Type	6–15	10–50 L≥D/2	2–11	5–50 VL=L or VL≤L−D/2
Shore A95	UTRS	CXTRS	16–20		4–16	
Shore A90	UTRH	CXTRH	21–30		6–26	
Shore A70	UTRM	CXTRM	31–40		6–36	
Shore A50	UTRL	CXTRL	41–50		6–46	

ⓘ The thickness of Through Hole Type (D−V)/2 is restricted by L. Refer to the table (Thickness Condition) in the figure.

Rubber Configurable Type

Part Number			1 mm Increment: D	L	Through Hole Type: V	VL
Nitrile Rubber	Through Hole Type	No Hole Type	6–15	10–30 L≥D/2	2–11	5–30 VL=L or VL≤L−D/2
	UBFN	CXBFN	16–25		7–21	
Silicon Rubber	Through Hole Type	No Hole Type	6–15		2–11	
	UBFS	CXBFS	16–25		7–21	
Low Elasticity Rubber	Through Hole Type	No Hole Type	6–15		2–11	
	UBFU	CXBFU				
Fluoro Rubber	Through Hole Type	No Hole Type	6–15		2–11	
	UBFF	CXBFF				

Bumpers with spherical and tapered tip are available in a short delivery time. Hole length is configurable for Through Hole Type.

Urethane / Rubbers – Tapered Tip

RoHS10

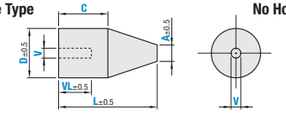
Through Hole Type	No Hole Type	Material	Hardness	Color
UTTS	CXTTS	Ether Polyurethane	Shore A95	Natural Color
UTTH	CXTTH		Shore A90	
UTTM	CXTTM	Ester Polyurethane	Shore A70	
UTTL	CXTTL		Shore A50	
UTBFN	CXTBFN	Nitrile Rubber (NBR Nitrile Rubber)	Shore A70	Black

V Tolerance

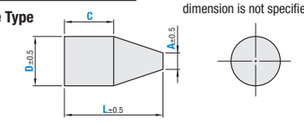
V	Tolerance
30 or Less	±0.2
31–52	±0.5

ⓘ For hole type, through hole will be machined when VL dimension is not specified.

Through Hole Type



No Hole Type



ⓘ Highly Abrasion Resistant Urethane and Amber Color Rubber are now available online.

Part Number (x Material Rate)			1 mm Increment: D	A (A≤D-2)	L	C	Through Hole Type: V	VL
	Through Hole Type	No Hole Type	6–15	2–13	10–30	1–29 C<L	2–11 V≤A-2	5–30 VL≤L
Shore A95	UTTS	CXTTS						
Shore A90	UTTH	CXTTH	16–30	2–28			2–24 V≤A-4	
Shore A70	UTTM	CXTTM						
Shore A50	UTTL	CXTTL	31–45	2–43			2–37 V≤A-6	
Shore A70	UTBFN	CXTBFN	46–60	2–58			2–52 V≤A-6	

Part Number Example

Part Number	-	D	-	L	-	V	-	VL
UTRS	-	D20	-	L40	-	V10	-	VL30
CXBFU	-	D10	-	L15				

Part Number	-	D	-	A	-	L	-	C	-	V	-	VL
UTTS	-	D15	-	A13	-	L15	-	C10	-	V5	-	VL10
CXTTH	-	D20	-	A14	-	L30	-	C15				