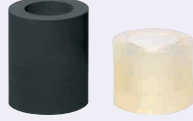


# Counterbored Rubber Bumpers

L Selectable

Black Oxide, Electroless Nickel Plating and SUS304 Collars are also available.

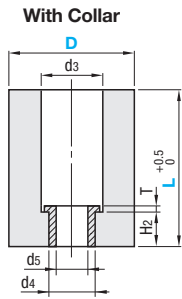
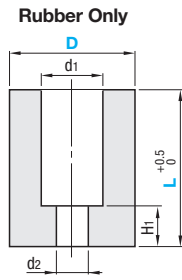
## L Selectable



RoHS 10

Rubber Only	With Collar			Material	Hardness	Color
	Black Oxide	Electroless Nickel Plating	SUS304			
RBZNK	RBZNK-C	RBZNK-M	RBZNK-S	Nitrile Rubber (NBR)	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 A 50 is translucent.



### Hole Diameter of Applicable Screw

Screw Size	Rubber Only		With Collar			T
	d1	d2	d3	d4	d5	
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	3
M6	11	7	13	9	6.6	
M8	14	9	15.5	11.5	9	3
M10	18	11	19	14	11	
M12	20	14	22	17	14	

**D Tolerance**

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

**d2, d4, H1, d1 and d3 Tolerance**

Dimension	Tolerance
30 or Less	±0.5
	±0.5
	±0.5

# Counterbored Rubber Bumpers, Collars for Counterbored Bumpers

Configurable Type

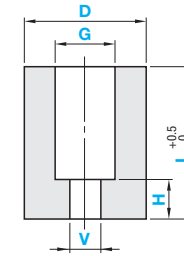
## Configurable Type



RoHS 10

Type	Material	Hardness	Color
RBZN	Nitrile Rubber (NBR)	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	Fluororubber (FPM)	Shore A80	Black
RBZAM	Amber Color Rubber	Shore A45	Amber Color

The milky white color of silicone rubber shore A 50 is translucent.



### D Tolerance

D	Tolerance
40 or Less	±0.5
41~60	±0.7

### V, H, G Tolerances

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	1mm Increment					Unit Price				
	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 Fluororubber (FPM) RBZAM Amber Color Rubber	11~15	3~10	3≤H<L	7~53 (G≤D-4)	6~30					
					31~50					
	16~30	5~16			6~30					
					31~50					
	31~45	5~25	5≤H<L	7~54 (G≤D-6)	10~30					
					31~50					
	46~60	5~30			25~30					
					31~50					

Amber Color Rubber Type is available up to L20.

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

Part Number	Type	D	L Selection	(M) Applicable Screw	Rubber Only H1	With Collar		Rubber Only				Collar Type			Unit Price
						H2	Applicable Collar No.	RBZNK RBZCK	RBZUK	RBZSK RBZAK	RBZFK	Black Oxide RBZ_K-C	Electroless Nickel Plating RBZ_K-M	SUS304 RBZ_K-S	
		12	12												
		15	12 15	M3	5		3								
		20	15 20	M4	7	5	4								
		25	20 25	M5	8	7	4A								
		30	20 25	M6	10	8	5								
		40	20 25	M8	12	8	6								
		50	20 25 30	M6	15	8	8								
		60	25 30 40	M8	10	8	8								
			30 40	M10	12	10	10								
			30 40 50	M12	10	10	12								
			30 40	M10	15	10	10								
			40 50	M12	10	10	12								
			30 40	M10	12	10	10								
			40 50	M12	10	12	12								

D12 is not available for Collar Type. L≤30 for Low Elasticity Rubber (RBZUK) and Fluororubber (RBZFK).

For applicable collar dimensions, see Collars for Counterbored Urethane and Rubber Bumpers.

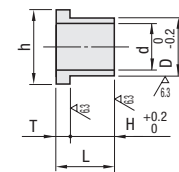
Ordering Example: Part Number - L - M  
RBZCK25 - 20 - M6

## Collars for Counterbored Bumpers



RoHS 10

Type	Material	Surface Treatment
AZC	S45C	Black Oxide
AZM	Equivalent	Electroless Nickel Plating
AZS	SUS304	-



Part Number	Type	No.	d	D	H	T	L	h	Unit Price		
									AZC	AZM	AZS
AZC AZM AZS	3	3.5	5.5				7	7.5			
	4	4.5	6.5				7	8.5			
	4A	4.5	6.5	5			7	9			
	5	5.5	8				7	10			
	6	6.6	9				8	12			
	8	9	11.5				8	14.5			
	8A	9	11.5	6			8	14.5			
	10	11	14	10	3	13	17				

No.10 is for AZC only.

Ordering Example: Part Number  
AZC4A