

Bumpers with Metal Washer

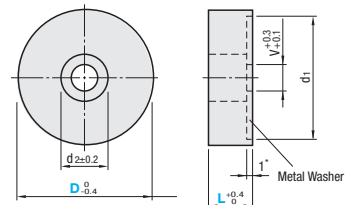
Urethane, Antistatic Polyurethane, Rubber

■MISUMI original product. Baked Metal Washer, Urethane and Rubber.



L		Urethane, Rubbers			Washer
Selectable	Configurable	M Material	Color	H Hardness	M Material
AYSK	AYFS	Ether Type Polyurethane	Black	Shore A95	EN 1.4301 Equiv.
AYHK	AYFH			Shore A90	
AYMK	AYFM			Shore A70	
AYLK	AYFL	Ester Type Polyurethane	Black	Shore A50	
-	AYFY			Shore A30	
-	AYFHE	Antistatic Polyurethane	Gray	Shore A90	
-	AYFME			Shore A70	
-	AYFLE			Shore A50	
-	RBFN	Nitrile Rubber (NBR)	Black	Shore A70	
-	RBFU	Low Elasticity Rubber (Hanenaito®)	Black	Shore A57	
-	RBFS	Silicon Rubber (SI)	Light Gray	Shore A70	
-	RBFF	Fluororubber (FPM)	Black	Shore A80	

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* The washer thickness of RBF is 2mm.

L Selectable (Urethane)

Part Number		L Selection	(M) Applicable Screw	d1	d2	V	Unit Price						
Type	D						L10	L15	L20	L25	L30	L40	L50
AYSK (x1.1) AYHK (x1.0) AYMK (x1.1) AYLK (x1.1) () Material Multiplier	12	10	M3	11	6	3		-	-	-	-	-	-
	15	10 15 20	M4	14	8	4				-	-	-	-
	20	10 15 20 25	M5	19	9.5	5					-	-	-
	25	10 15 20 25 30	M6	24	11	6						-	-
	30	15 20 25 30 40	M8	29	14	8	-						-
	40	25 30 40 50	M10	39	17	10	-	-	-	-			

L Configurable (Urethane)

Part Number		L 1mm Increment	(M) Applicable Screw	d1	d2	V	Unit Price		
Type	D						L5~40	L41~60	L61~80
AYFS (x1.1) AYFH (x1.0) AYFM (x1.1) AYFL (x1.0) AYFY (x1.3) AYFHE (x1.2) AYFME (x1.2) AYFLE (x1.4) () Material Multiplier	12	5~80	M3	11	6	3			
	15		M4	14	8	4			
	20		M5	19	9.5	5			
	25		M6	24	11	6			
	30		M8	29	14	8			
	40		M10	39	17	10			

☎The price of this product is the unit price shown in the table multiplied by material multiplier.

(Ex.) Part Number - L (Unit Price) x (Material Multiplier)
AYFHE30 - 30 >>

Characteristic Values of Antistatic Urethane

Specific Volume Resistivity	2.1x10 ⁹ Ω・cm
Surface Resistivity	4.0x10 ⁹ Ω

(Conditions: Temperature 30°C Humidity 60%)

☎All other properties are equal to those of urethane of the same hardness.

L Configurable (Rubber)

Part Number		L 1mm Increment	(M) Applicable Screw	d1	d2	V	Unit Price			
Type	D						RBFN	RBFU	RBFS	RBFF
RBFN RBFU RBFS RBFF	15	5~30	M4	14	8	4				
	20		M5	19	9.5	5				
	25		M6	24	11	6				
	30		M8	29	14	8				

☎Ordering Example
Part Number - L
AYSK12 - 10
AYFY25 - 52

Urethane / Rubber Baked Bumpers

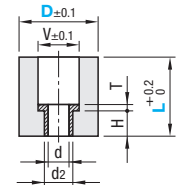
Collar Baked Type, Threaded Type

■Collar Baked Type can be easily mounted as there is no backlash which often arises from tolerance between urethane and collar.

■Threaded Bumpers contribute to reduced assembly time, improved tightening force, and save space by integrating conventional 3 parts (counterbored bumper, screw and collar) into a single part.



Type	M Material	H Hardness	Color
Collar	Urethane		
AZKSS AZKHS AZKMS AZKLS	EN 1.4301 Equiv.	Ether Polyurethane Shore A95 Shore A90 Shore A70 Shore A50	Natural Color



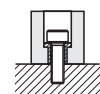
L Selectable

Part Number		L Selection	M (Coarse)	V	d	d2	T	H	Unit Price			
Type	D								AZKSS	AZKHS	AZKMS	AZKLS
Collar Baked Type			M3	7.5	3.5	5.5	2	5				
AZKSS (Shore A95)	15	12 15 20	M4	8.5	4.5	6.5		7				
AZKHS (Shore A90)	20	20 25	M5	10	5.5	8		8				
AZKMS (Shore A70)	25	20 25	M6	12	6.6	9		8				
AZKLS (Shore A50)			M8	14.5	9	11.5						

☎Ordering Example
Part Number - L - M
AZKSS15 - 15 - M3

☎Example

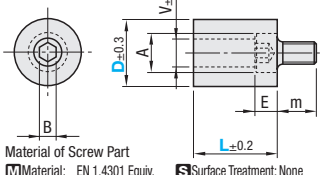
- Product Features
- Eliminates backlash which arises from tolerance between urethane and collar.
- Reduced parts count leads to reduction in time and labor for press-fitting and management.



Threaded Type



Type	M Material	H Hardness	Color
L Selectable L Configurable			
USBKS UHBKS UMBKS ULBKS UEHBKS UEMBKS NBBKS NSBKS	Ether Polyurethane Ether Polyurethane Ester Polyurethane Ester Polyurethane Abrasion Resistant Urethane Abrasion Resistant Urethane Nitrile Rubber (NBR) Low Elasticity Rubber (Hanenaito®)	Shore A95 Shore A90 Shore A70 Shore A50 Shore A90 Shore A70 Shore A70 Shore A32	Natural Color Natural Color Dark Brown Black



L Selectable

Part Number		L Selection	M (Coarse)	B	A	V	E	m	Unit Price			
Type	D								U [□] BKS	UE [□] BKS	NBBKS	NSBKS
USBKS (Ether Polyurethane Shore A95)	12	10 15	M4 x0.7	3	7	5	4	6				
UHBKS (Ether Polyurethane Shore A90)	15	10 15 20	M4 x0.7	3	7	5	4	6			-	-
UMBKS (Ester Polyurethane Shore A70)	20	20 25 30	M6 x1.0	5	10	8	6	10				
ULBKS (Ester Polyurethane Shore A50)			M5 x0.8	4	9	7	5	8			-	-
UEHBKS (Abrasion Resistant Urethane Shore A90)	25	20 25 30	M8 x1.25	6	13	9	8	12				
UEMBKS (Abrasion Resistant Urethane Shore A70)			M6 x1.0	5	10	8	6	10			-	-
NBBKS (Nitrile Rubber Shore A70)	30	20 25 30	M10 x1.5	8	16	11	10	15				
NSBKS (Hanenaito® Shore A32)			M8 x1.25	6	13	9	8	12			-	-
			M10 x1.5	8	16	11	10	15				

L Configurable

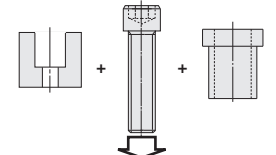
Part Number		1mm Increment	(Coarse) M	B	A	V	E	m	Unit Price			
Type	D								U [□] BYS	UE [□] BYS	NBBYS	UNBYS
USBYS (Ether Polyurethane Shore A95)	12	5~50	M4 x0.7	3	7	5	4	6				
UHBYS (Ether Polyurethane Shore A90)	15	7~50	M6 x1.0	5	10	8	6	10				
UMBYS (Ester Polyurethane Shore A50)	20	9~50	M8 x1.25	6	13	9	8	12				
UEHBYS (Abrasion Resistant Urethane Shore A90)	25	11~50	M10 x1.5	8	16	11	10	15				
UEMBYS (Abrasion Resistant Urethane Shore A70)	30	11~50	M10 x1.5	8	16	11	10	15				
NBBYS (Nitrile Rubber Shore A70)			M10 x1.5	8	16	11	10	15				
UNBYS (Hanenaito® Shore A32)												

☎L dimensions of Nitrile Rubber (NBBYS) and Low Elasticity Rubber (UNBYS) are up to 30.

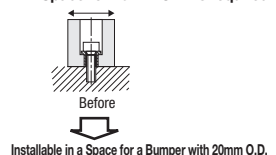
☎Ordering Example
Part Number - L - M
USBYS12 - 10 - M4

Product Features

Before: Bumper, Screw, Collar (3 parts)



With M8 Screw
Space for 25mm O.D. is required.



Threaded Urethane Bumper 1 pc.

- Reduced Parts Count→Reduced Assembly Time
- Increased Tightening Force
- Space Saving

Installable in a Space for a Bumper with 20mm O.D.



Space Saving
Approx. 20%

Threaded Urethane Bumper