

Urethane / Rubbers

Spherical Tip, Tapered Tip

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

Spherical Tip

Through Hole Type	No Hole Type	Material	Hardness	Color
UTRS	CXTRS	Ether Polyurethane	Shore A95	Natural Color
UTRH	CXTRH		Shore A90	
UTRM	CXTRM	Shore A70		
UTRL	CXTRL	Ester Polyurethane	Shore A50	
UBFN	CXBFN	Nitrile Rubber (NBR)	Shore A70	Black
UBFS	CXBFS	Silicon Rubber	Shore A70	Light Gray
UBFU	CXBFU	Low Elasticity Rubber (Hanenaito® GP-35L)	Shore A32	Black
UBFF	CXBFF	Fluororubber	Shore A80	Black

ⓂHanenaito® is a registered trademark of Naigai Rubber Industry Co., Ltd.

V Tolerance

V	Tolerance
30 or Less	±0.2
31~46	±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)	1mm Increment		Unit Price										
	D	L	Through Hole Type		No Hole Type								
Through Hole Type No Hole Type	6~15	10~50 (L≥D/2)	2~11	VL	L10~20	L21~30	L31~40	L41~50	L10~20	L21~30	L31~40	L41~50	
(Shore A95) UTRS CXTRS (x1.4)	16~20		2~11	5~50									
(Shore A90) UTRH CXTRH (x1.0)	21~30		4~16	(VL=L) or									
(Shore A70) UTRM CXTRM (x1.2)	31~40		6~26	(VL≤L-D/2)									
(Shore A50) UTRL CXTRL (x1.4)	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 drawing.

Rubber Configurable Type

Part Number	1mm Increment		Unit Price					
	D	L	Through Hole Type		No Hole Type			
Through Hole Type No Hole Type	6~15	10~30 (L≥D/2)	2~11	VL	L10~20	L21~30	L10~20	L21~30
(Nitrile Rubber) UBFN CXBFN	16~25		2~11	5~30				
(Silicon Rubber) UBFS CXBFS	16~25		2~11	(VL=L) or				
(Low Elasticity Rubber) UBFU CXBFU	6~15		2~11	(VL≤L-D/2)				
(Fluororubber) UBFF CXBFF	6~15		2~11					

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

Tapered Tip

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

V Tolerance

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

Through Hole Type

No Hole Type

ⓂFor Through Hole Type, through hole will be machined when VL dimension is not specified.

Part Number (x Material Multiplier)	1mm Increment				Unit Price						
	D	A (A≤D-2)	L	C	Through Hole Type		No Hole Type				
Through Hole Type No Hole Type	6~15	2~13	10~30	1~29 (C<L)	2~11	VL	L10~20	L21~30	L10~20	L21~30	
(Shore A95) UTTS CXTTS (x1.4)	16~30	2~28			2~24	5~30					
(Shore A90) UTTH CXTTH (x1.0)	31~45	2~43			(V≤A-4)						
(Shore A70) UTTM CXTTM (x1.2)	46~60	2~58			2~37						
(Shore A50) UTTL CXTTL (x1.4)											
(Shore A70) UTBFN CXTBFN (x1.08)											

Prices and price multiplier have been revised according to the price list integration.

Ordering 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

Urethane, Rubbers

Piloted Type

Bumpers with pilot tip ends are available in a short delivery time.

Standard Type (No Hole Type)

Standard	Configurable Type	Material	Hardness	Color
DXSK	DXFS	Ether Polyurethane	Shore A95	Natural Color
DXHK	DXFH		Shore A90	Natural Color
DXMK	DXFM	Ester Polyurethane	Shore A70	Natural Color
DXLK	DXFL		Shore A50	Natural Color
-	RBKN	Nitrile Rubber (NBR)	Shore A70	Black
-	RBKC	Chloroprene Rubber (CR)	Shore A95	Black
-	RBKU	Low Elasticity Rubber	Shore A32	Black
-	RBKS	Silicon Rubber (SI)	Shore A70	Light Gray
-	RBKA		Shore A50	Milky White
-	RBKF	Fluororubber (FPM)	Shore A80	Black

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

T Tolerance

T	Urethane	Rubber
30 or Less	±0.2	±0.3
31 ~ 50	±0.3	-

D Tolerance

D	Urethane	Rubber
40 or Less	±0.2	±0.5
41~60	±0.3	±0.7
61~100	±0.4	-

C Tolerance

C	Urethane	Rubber
40 or Less	+0.2	+1.0
41 or More	+0.3	+1.4
	0	0

ⓂStandard Type has no hole.

Standard Type (No Hole Type)

Part Number	Type	D	V Selection	T Selection	L Selection	Unit Price			
						DXSK	DXHK	DXMK	DXLK
DXSK (Shore A95)	8	5	3 5	8 10	13 15				
	10	5 8	3 5	8 10 15	14 16 18 21 23				
	15	8 10	3 5	8 10 15 16 18 20 23 25					
	20	10 15	5 8 10 15	15 18 20 23 25					
	25	15 20	5 10	15 20 25 25 30 35 40					
30	20 30	5 10	15 20 25 25 30 35 40						
40	30 40	5 10	15 20 25 25 30 35 40						

Urethane Configurable (Hole Configurable Type)

Part Number	1mm Increment				Unit Price				
	D	V (V<D)	T	L	C	DXFS	DXFH	DXFM	DXFL
DXFS (Shore A95)	6~15	3~14	2~30	4~10	0 (No Hole)				
				11~25					
				26~40					
				41~50					
DXFH (Shore A90)	16~30	6~29	2~40	7~10	2~40				
				11~25					
				26~40					
				41~50					
DXFM (Shore A70)	31~45	10~44	5~40	7~10	0 (No Hole)				
				11~25					
				26~40					
				41~50					
DXFL (Shore A50)	46~60	15~59	5~45	7~10	10~55				
				11~25					
				26~40					
				41~50					

ⓂC≤V-4 ⓂL-T≤Vx3

ⓂFor Urethane Configurable Type, configurable dimension range has been shortened.

Ordering Example

Part Number - D - V - T - L - C

DXFL - D49 - V30 - T6 - L42 - C0

Rubber Configurable (Hole Configurable Type)

Part Number	1mm Increment				Unit Price				
	D	V (V<D)	T	L	C	RBKN	RBKC	RBKA	RBKF
RBKN (Nitrile Rubber (NBR))	6~15	3~14	2~30	4~10	0 (No Hole)				
				11~20					
				21~30					
				31~50					
RBKC (Chloroprene Rubber (CR))	16~30	6~29	2~40	7~10	2~40				
				11~20					
				21~30					
				31~50					
RBKU (Low Elasticity Rubber)	31~45	10~44	5~30	7~10	0 (No Hole)				
				11~20					
				21~30					
				31~50					
RBKA (Silicon Rubber (SI))	46~60	15~59	5~30	7~10	10~50				
				11~20					
				21~30					
				31~50					
RBKF (Fluororubber (FPM))	6~15	3~14	2~30	4~10	0 (No Hole)				
				11~20					
				21~30					
				31~50					

ⓂC≤V-4 ⓂL-T≤Vx3

ⓂL≤30 for RBKU, RBKS and RBKF.