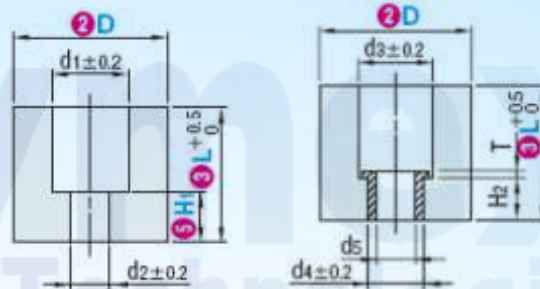
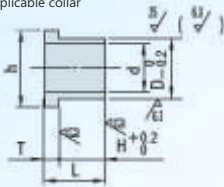


Counterbored Urethane Bumpers, With Collar/ Without Collar



Detailed dimensions of
applicable collar



Orders Can be placed for collars alone

Collar No.	d	D	H	T	L	H
3	3.5	5.5	5	2	7	7.5
4	4.5	6.5	7		9	8.5
4A	4.5	6.5	7		9	10
5	5.5	8	8		10	12
6	6.6	9	8	3	10	14.5
8	9	11.5	8A		8	17
8A	9	11.5	8A		8	20
10	11	14	10		13	26
12	14	17	10	4	19	
16	18	22	15		19	

The corresponding hole sizes for
applicable bolts are as follows

Bolt Dimension	Urethane 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		
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		
M16	26	18	28	22	18		4

H1-H2 Tolerance

H1-H2	Tolerance
30 or Less	±0.3
31 or more	±0.6

D Tolerance

D	Tolerance
40 or Less	±0.3
50	±0.4
60	
80	±0.5
100	

- Due to the tolerances of the polyurethane and the shaft collar, the L dimension of the shaft collar may protrude slightly, which is normal.
- If you mind this situation, please choose Polyurethane Shock Absorbing Material Hot Bonding/Shaft Ring Hot Bonding Type Products

Material Specifications

Part Number	Shaftless Type (Polyurethane Only)	With Collar Type			Material	Hardness	Color
		Black Oxide	Electroless Nickel Plating	Austenitic Stainless Steel			
L Dimension Fixed Type	DE-AZXS	DE-AZXS	DE-AZXS	DE-AZXS	Standard Urethane	Shore A95	Natural
	DE-AZXHK	DE-AZXHC	DE-AZXHM	DE-AZXHS	(Ether Type urethane)	Shore A90	
	DE-AZXMK	DE-AZXMC	DE-AZXMM	DE-AZXMS	Standard Polyurethane	Shore A70	
	DE-AZXLK	DE-AZXLC	DE-AZXLM	DE-AZXLS	(Ester-Based Polyurethane)	Shore A50	
	DE-AZEXHK	DE-AZEXHC	—	—	Wear-Resistant Urethane	Shore A90	Dark Brown
	DE-AZEXMK	DE-AZEXMC	—	—		Shore A70	
	DE-AZXHHK	DE-AZXHHC	—	—	Heat-Resistant Urethane	Shore A90	Brown
	DE-AZXS	DE-AZCS	DE-AZCS-M	DE-AZCS-S	Standard Urethane	Shore A95	Natural
	DE-AZXH	DE-AZCH	DE-AZCH-M	DE-AZCH-S	(Ether Type Urethane)	Shore A90	
	DE-AZXM	DE-AZCM	DE-AZCM-M	DE-AZCM-S	Standard Polyurethane	Shore A70	
	DE-AZXL	DE-AZCL	DE-AZCL-M	DE-AZCL-S	(Ester-Based Polyurethane)	Shore A50	

- Material color is subject to the actual product. Polyurethane will yellow over time, but its properties will not change.
- For details on various polyurethane characteristics,
- Orders for only the shaft collar are also accepted.
- Polyurethane Shock Absorbing Material Color Chart



Counterbored Urethane Bumpers, With Collar/ Without Collar

Specification Table

Type				D	L Selection	M	Polyurethane Only H1	With Collar	
								H2	Shaft Collar No.
L Dimension Fixed				12	12	M3	5	—	
No Collar		With Collar		15	12 15			5	3
Urethane only	Black Oxide	Electroless Nickel Plating	SUS304		15 20	M4			
DE-AZXS DE-AZ									

Product Features

- Feature 1:** Compared to rubber, polyurethane offers a wider range of hardness options, is softer and more elastic, and also has a certain degree of airtightness.
- Feature 2:** Urethane has excellent mechanical strength and is more widely used to prevent scars and cracks when brittle objects such as glass and acrylic are fastened.
- Feature 3:** Urethane is less likely to transmit vibration and sound.
- Feature 4:** Polyurethane has low dust generation, and since it does not contain carbon, it is a material that is not prone to color transfer. (*Natural color only)
- Feature 5:** A wide variety of products are available to suit different operating conditions.
- Feature 6:** Available with or without shaft collar, offering multiple options to meet your needs

Hardness Table

Material	A95	A90	A70	A50	A30
Urethane	●	●	●	●	●
Nitrile Rubber	⊗	⊗	⊗	⊗	⊗
Chloroprene	⊗	⊗	●	⊗	⊗
EPDM Rubber	⊗	⊗	●	⊗	⊗
Silicone Rubber	⊗	⊗	●	⊗	⊗
Fluororubber	⊗	⊗	●	⊗	⊗
Butyl Rubber	⊗	⊗	●	⊗	⊗

Basic Specifications

- Shape - Counterbored
- Material - Urethane



ORDERING GUIDE



DE-AZCH15-[25-80/1]-M[3,4]