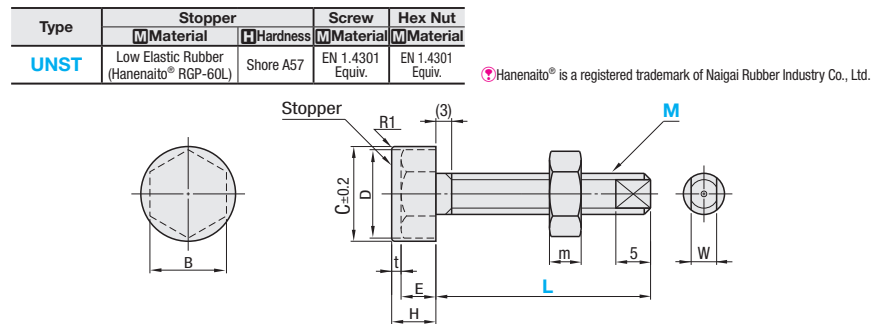


Shock Absorption Stoppers

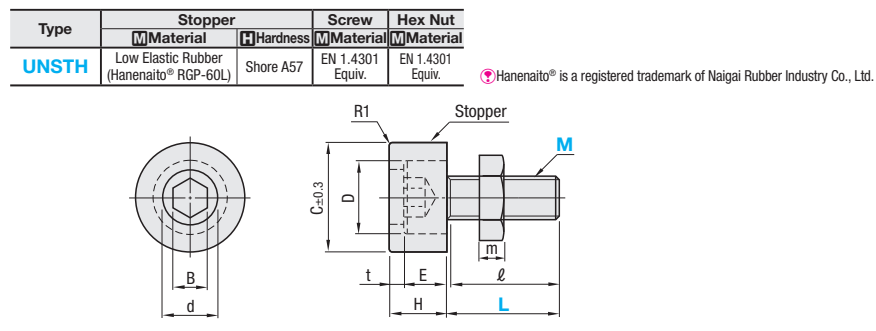
Bolts / Hex Socket Head Cap Screws with Low Elastic Rubber Head

Bolts with Low Elastic Rubber Head



Part Number Type	M (Coarse)	L Selection				t	C	D	B	H	E	Shock Absorption Amount (kgf·cm)	Withstand Load (kgf)	m	W	Unit Price
		3	4	5	6											
UNST	3	10	15	20	4	8	6.15	5.5	6	2	0.045	2.2	1.8	2		
	4	10	15	20	4.2	10	7.7	7	7	2.8	0.069	3.4	2.4	3		
	5		20	30	4.5	12	8.8	8	8	3.5	0.112	5.4	3.2	4		
	6		20	30	4.5	15	11.1	10	9	4	0.207	9.4	3.6	4.5		
	8		30	40	5.7	18	14.4	13	11	5.3	0.350	14.2	5	6.5		
	10		30	40	5.6	21	17.8	16	12	6.4	0.517	23.4	6	8		

Hex Socket Head Cap Screws with Low Elastic Rubber Head



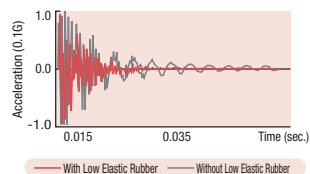
Part Number Type	M (Coarse)	L Selection				t	C	D	d	B	H	E	Shock Absorption Amount (kgf·cm)	Withstand Load (kgf)	m	l	Unit Price
		4	5	6	8												
UNSTH	4	10	15	20	4.2	11	7	5	3	8.2	4	0.055	2.4	3.2	Full Thread (22)		
	5		15	20	4.5	13	8.5	7	4	9.5	5	0.072	3.0	4	Full Thread		
	6		15	20	5	18	10	8	5	11	6	0.197	7.4	5	Full Thread (26)		
	8		25	30	5.7	20	13	9	6	13.7	8	0.272	8.8	6.5	Full Thread		
	10		30	40	5.6	25	16	12	8	15.6	10	0.444	14.4	8	Full Thread (34)		

* l dimension for * marked L dimension is in ().

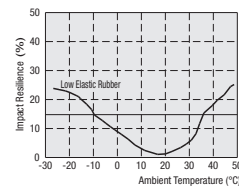
Part Number	L
UNST8	40
UNSTH4	20

Material with Excellent Shock Absorption

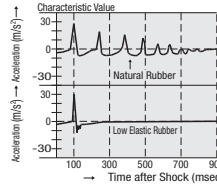
Low Elastic Rubber
It is used as cushioning material for pallet damper, conveyor machine, precision instrument etc, because of its good elongation and shock absorption. Also it is used as vibration absorption materials of various precision instruments because of its excellent vibration absorption.



Impact Resilience Variation by Temperature of Low Elastic Rubber



Shock Absorption of Low Elastic Rubber

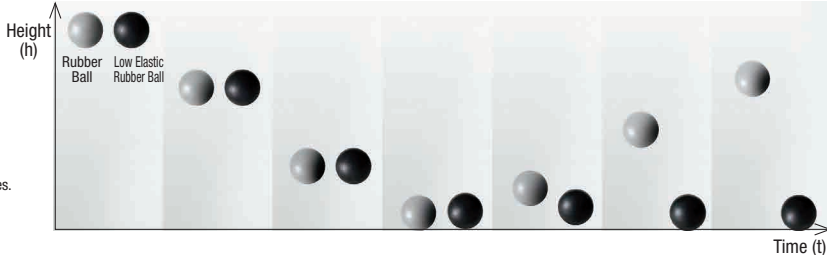


Properties

Item	Unit	Low Elastic Rubber
Hardness	(JIS-A)	57
Tensile Strength	(MPa)	8.3
(Same as above)	(kgf/cm ²)	85
Elongation	(%)	810
Impact Resilience	(%)	2
Compression Set	70°C x 22hr (%)	16
Specific Gravity		1.35

* Above data are standard values, not guaranteed values.

Drop Comparison of Rubber Ball and Low Elastic Rubber Ball



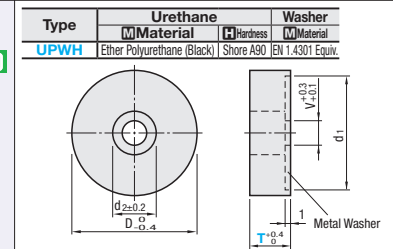
Washers, Stoppers with Plates

Urethane Type, Low Elastic Rubber Type

Urethane Type Urethane Stoppers with Washers



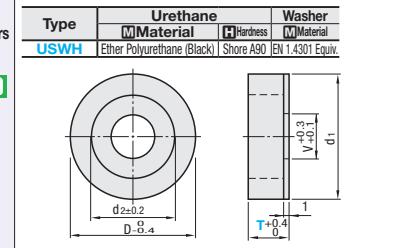
Urethane is baked on a EN 1.4301 Equiv. plate.



Urethane Type Urethane Stoppers with Washers for Extra Low Head Screws



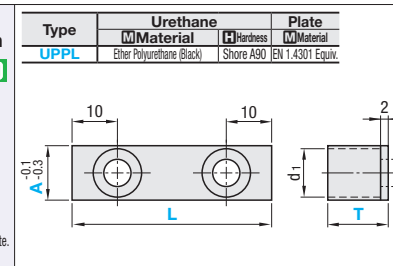
Urethane is baked on a EN 1.4301 Equiv. plate.



Urethane Type Urethane Stoppers with Plates



Urethane is baked on a EN 1.4301 Equiv. plate. * Use low head bolts.

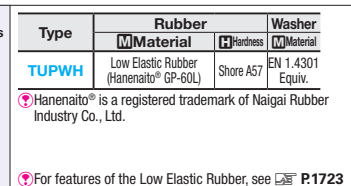


Part Number	T	L
UPWH4	8	
USWH3	7	
UPPL12	6	30

Low Elastic Rubber Type Low Elastic Rubber Stoppers with Washers



Rubber is baked on a EN 1.4301 Equiv. plate.

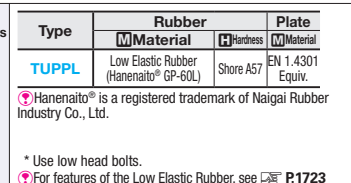


Part Number Type	No.	T	D	d1	d2	V	Shock Absorption Amount (kgf·cm)	Withstand Load (kgf)	Unit Price
TUPWH	3	7	15	14	6	3	0.112	4.2	
		10					0.161	3.6	
	4	8	20	19	8	4	0.261	8.0	
		15					0.474	6.8	
	5	9	25	24	9.5	5	0.523	14.0	
		10					0.919	21.4	
	6	25	30	29	11	6	2.018	16.4	
		12					2.221	41.6	

Low Elastic Rubber Type Low Elastic Rubber Stoppers with Plates



Rubber is baked on a EN 1.4301 Equiv. plate. * Use low head bolts.

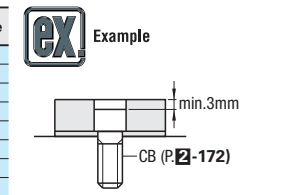
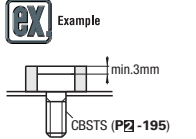


Part Number Type	A	T Selection	L Selection	d	d1	Shock Absorption Amount (kgf·cm)	Withstand Load (kgf)	Unit Price
TUPPL	12	6	30	3.5	6.5	0.217	6.6	
			50			0.577	17.6	
			30			0.324	6.0	
			50			0.786	14.6	
			75			0.408	7.4	
	15	10	30	3.5	6.5	1.024	19.0	
			50			1.234	23.0	
	19	10	75	4.5	8.0	2.51	47.0	

Part Number Type	No.	T	D	d1	d2	V	Unit Price	Volume	Discount Rate
UPWH	3	7	15	14	6	3			
		10							
	4	8	20	19	8	4			
		15							
	5	9	25	24	9.5	5			
		20							
	6	10	30	29	11	6			
		25							
	8	12	40	39	14	8			
		30							
	10	14	50	49	17	10			
		35							

Part Number Type	No.	T	D	d1	d2	V	Unit Price	Volume	Discount Rate
USWH	3	4	11	10	7	3.5			
		7							
	4	4	13	12	9	4.5			
		7							
	5	4	14	13	10	6			
		7							
	6	4	15	14	11	7			
		7							

Part Number Type	A	T Selection	L Selection	d	d1	Unit Price
UPPL	12	6	30	3.5	6.5	
			50			
	19	8	50	4.5	8.0	
		10	75			



Part Number	T	L
TUPWH6	10	
TUPPL12	6	30