


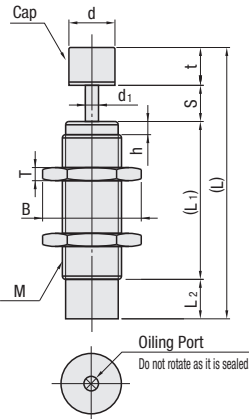
Shock Absorbers

Fixed Force Type

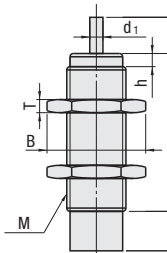
Similar Products Comparison Point | RoHS Compliant Replacement Interval (cycle): 1,000,000 cycles



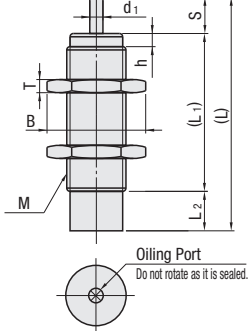
MAKC
(Cap)



Oiling Port
Do not rotate as it is sealed.



MAKS
(No Cap)



Oiling Port
Do not rotate as it is sealed.

For parallel use of more than 2 pieces, be sure to use the same type and install them to receive the shock equally.
Operating Ambient Temperature: -5 ~ 70°C
Fully threaded if there is no h dimensions in the specification table.
Replace after 1,000,000 cycles.

No.	Material (Main Body)	Surface Treatment
0404	SUS303	-
0604	C3604	-
0805	C3604	-
1005	SUM	Electroless Nickel Plating
1008		
1210		
1412		
1612	STKM12C	Electroless Nickel Plating
2022		
2530		
2725	Polyacetal	-
3035		
Cap	Only 2022 is urethane rubber.	-



Part Number	Thread	Stroke	Max. Absorbed Energy (E)		Piston Rod Return Force (N)	Max. Drag Value (N)	MAKC			MAKS			B (Wrench Flats)	T	h	MAKC		MAKS	
			per Impact (J)	per Minute (J)			Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate							
0404	A	M4 x 0.5	0.1	4.5	1	2.5 or Less	214	32.6 (28.6)	20.1	3	1.2	8.1 (7)	2	0.5					
	B	M4 x 0.5	0.3	13.5	3	3 or Less	363	33 (29)	20.5	4.5	1.8	9.2 (8)	2						
	L	M6 x 0.75	0.3	13.5	2	3 or Less	363	33 (29)	20.5	4.5	1.8	9.2 (8)	2						
0604	A	M6 x 0.75	0.39	17.6	3	4.9 or Less	490	37 (32)	22	5	2	12.7 (11)	2						
	B	M6 x 0.75	0.68	22.5	3	5.88 or Less	588	39 (32)	5	6	3	14.2 (13)	3						
0805	A	M8 x 0.75	0.98	41.1	8	5.88 or Less	735	53 (46)	33	6	3	14.2 (13)	3						
	B	M8 x 0.75	1.47	58.8	10	5.88 or Less	735	53 (46)	33	6	3	14.2 (13)	3						
1005	A	M10 x 1.0	1.96	98	15	9.8 or Less	1470	68 (60)	45	5	8	16.2 (14)	4						
	B	M10 x 1.0	2.45	98	20	9.8 or Less	1470	68 (60)	45	5	8	16.2 (14)	4						
1008	L	M10 x 1.0	6.86	98	30	9.8 or Less	1960	71 (63)	47.5	10	3.5	19.6 (17)	6						
	M	M10 x 1.0	6.86	98	30	9.8 or Less	1960	71 (63)	47.5	10	3.5	19.6 (17)	6						
1210	A	M12 x 1.0	9.8	176	20	8.9 or Less	2156	78 (70)	52.5	10	15	20 (19)	6						
	B	M12 x 1.0	14.7	235	30	9.8 or Less	2940	90 (75)	57.5	13.5	5	20 (19)	6						
1412	L	M14 x 1.5	23.5	343	60	18.1 or Less	3528	110 (93)	63	14	18	27.7 (24)	8						
	M	M14 x 1.5	23.5	343	60	18.1 or Less	3528	110 (93)	63	14	18	27.7 (24)	8						
1612	L	M16 x 1.5	39.2	392	73	39.2 or Less	3920	126.5 (112)	76	15	22	37 (32)	10						
	M	M16 x 1.5	39.2	392	73	39.2 or Less	3920	126.5 (112)	76	15	22	37 (32)	10						
2016	L	M20 x 1.5	49.0	490	105	27.3 or Less	6370	137.5 (117.5)	77.5	23	20	41.6 (36)	14						
	M	M20 x 1.5	49.0	490	105	27.3 or Less	6370	137.5 (117.5)	77.5	23	20	41.6 (36)	14						
2022	L	M25 x 1.5	156.0	1560	156	156 or Less	15600	156 (156)	156	27	10	18.5	14						
	M	M25 x 1.5	156.0	1560	156	156 or Less	15600	156 (156)	156	27	10	18.5	14						
2530	L	M27 x 1.5	196	1176	173	47.1 or Less	14700	190 (171.5)	116.5	20	27	10	18.5						
	M	M27 x 1.5	196	1176	173	47.1 or Less	14700	190 (171.5)	116.5	20	27	10	18.5						
2725	L	M30 x 1.5																	
	M	M30 x 1.5																	
3035	L	M30 x 1.5																	
	M	M30 x 1.5																	

L dimension values in () are for MAKS.

kgf·m=Jx0.101972 kgf=Nx0.101972

Collision Velocity Type	Collision Velocity Range	Max. Operating Cycle
Low Speed L	0.3~1m/s	60cycle/min *
Medium Speed M	0.3~2m/s	
High Speed H	0.3~3m/s	

Ordering Example **Part Number**
MAKC1008L

* No.0404, 0604 and 0805 are 45cycle/min; No.3035 is 30cycle/min.


Note that, for some of the types shown here, order might be unable to be received by the MISUMI Indonesia offices.

MISUMI VALUE Shock Absorbers

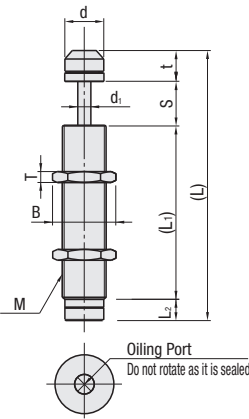
Fixed Force Type

Similar Products Comparison Point | Not RoHS Compliant Replacement Interval (cycle): 700,000 cycles

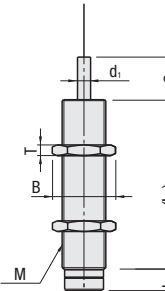
Similar product page P.373



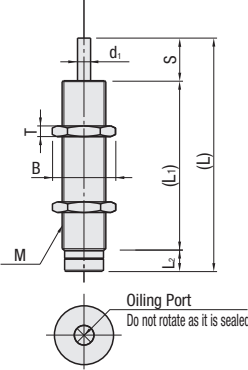
C-MAKC
(Cap)



Oiling Port
Do not rotate as it is sealed.



C-MAKS
(No Cap)



Oiling Port
Do not rotate as it is sealed.

Operating Ambient Temperature: -5 ~ 70°C
In No. 0806, 1005 and 1008, base surface is of minus slot-type.
Keep the distance between location point of the shock absorber and the Fulcrum more than 6 times of stroke of absorber to ensure that shock absorber does not put stress on the side, in case of rotational load. Also, absorbed energy is maximum when the load on the side surface is at 5° angle with the centerline of the shock absorber.

Material	Surface Treatment	
	Main Body	Cap
STKM11A	Polyurethane	Black Oxide

Part Number	Thread	Stroke	Max. Absorbed Energy (E)		Max. Equivalent Mass (me) (kg)	(L)	(L-1)	L2	d	d1	t	B (Wrench Flats)	T	C-MAKC		C-MAKS	
			per Impact (J)	per Minute (J)										Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
0806	L	M8 x 1.0	0.6	36.3	1.8	50 (44)	33	5	6.6	2.8	6	11	3				
	M	M8 x 1.0	0.6	36.3	0.6	50 (44)	33	5	6.6	2.8	6	11	3				
	H	M8 x 1.0	0.6	36.3	0.15	50 (44)	33	5	6.6	2.8	6	11	3				
1005	L	M10 x 1.0	1.2	48	2.8	38.5 (32.5)	21.5	6	8.6	2.8	6	12.7	3				
	M	M10 x 1.0	1.2	48	1.2	38.5 (32.5)	21.5	6	8.6	2.8	6	12.7	3				
1008	L	M10 x 1.0	2.4	48	7.2	57 (51)	38	5	8.6	3	6	12.7	3				
	M	M10 x 1.0	2.4	48	2.4	57 (51)	38	5	8.6	3	6	12.7	3				
1210	L	M12 x 1.0	3	42.9	18	69.4 (60.2)	45.5	5.7	9.5	3	9.2	14	4				
	M	M12 x 1.0	3	42.9	6	69.4 (60.2)	45.5	5.7	9.5	3	9.2	14	4				
1412	L	M14 x 1.5	9	161.6	60	100 (88)	67	9	11.8	4	12	19	6				
	M	M14 x 1.5	9	161.6	30	100 (88)	67	9	11.8	4	12	19	6				
2020	L	M20 x 1.5	24	280	420	145.8 (130)	101	9	18	6	15.8	26	8				
	M	M20 x 1.5	24	280	120	145.8 (130)	101	9	18	6	15.8	26	8				

L dimension values in () are for C-MAKS.

Collision Velocity Type	Max. Collision Velocity	Operating Ambient Temperature	Replacement Interval
Low Speed L	~0.8m/s	-5~70°C	700,000 cycles
Medium Speed M	~1.5m/s		
High Speed H	~3m/s		

Ordering Example **Part Number**
C-MAKC1210L

In No.0806, maximum collision velocity for L type is 0.5m/s, for M type it is 1.0m/s, and for H type it is 2.0m/s.
In No.2020, maximum collision velocity for L type is 1.0m/s, and for M type it is 2.0m/s.

Example

