Shock Absorber （Two-Stage Motion W Type）

2-step Motion W Type Irregular Multi-orifice/Analog-adjustable **W-A2M12**

Series

Small and light analog adjustable 2-step motion shock absorbers of screwed type

- Shock absorbers whose energy absorption can be adjusted. They show the energy absorption characteristics of multi-orifice type in the first half of a stoke and those of single-orifice type in the second half.
- Small-size shock absorbers with outer diameter of M12 can be handled easily in the same manner as when fitting bolts.
- They have threaded portions on the outside.
- They are small but very softly absorb impact.
- Suitable for absorbing shock caused by air cylinder

Specification

	Model number		W-A2M12N010 (Standard type)	W-A2M12N010-C (With cap)
	Energy absorption range	J	0.981 to 4.90	
	Stroke	mm	10	
	Corresponding (equivalent) weight range	kg	30	
(Note 1)	Max. energy capacity per minute	J/min	98.1	
	Collision speed range	m/s	2 or less	
(Note 3)	Max. resisting force	N	1470	
(Note 2)	Rod returning force	N	9.81	
(Note 2)	Rod return time	s	0.5	
	Max. working cycle	times/min	60	
	Working temperature range	℃	−5 to +70 (No freezing)	
	Weight	g	44	47
	Accessories		Auxiliary stopper nut, eccentric angle adapter	

(Note 1) The max. energy capacity per minute shown in the table is the value at an ambient temperature of 26.7℃.
The max. energy capacity per minute E_2 (J/min) at an ambient temperature T (℃) is indicated by the following formula.

$$E_2 = \frac{(82.2-T)}{55.5} \times \left(\begin{array}{l}\text{max. energy}\\ \text{capacity per minute}\\ \text{shown in table}\end{array}\right)$$

(Note 2) Maximum value when rod is retracted a stroke of 10 mm.

(Note 3) Maximum resisting force obtained after the shock absorber is appropriately adjusted.