

Shock Absorber (Two-Stage Motion W Type)



2-step Motion W Type Irregular Multi-orifice/Analog-adjustable **W-A2M27**

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 stroke and those of single-orifice type in the second half.
- Since their outer surfaces are threaded, they can be handled easily in the same manner as when fitting bolts.
- Suitable for absorbing shock caused by air cylinder.

Specification

Model number		W-A2M27N025SD (Standard type)	W-A2M27S025SD-C (With cap)
Energy absorption range	J	15.7 to 79.4	
Stroke	mm	25	
Corresponding (equivalent) weight range	kg	450	
(Note 1) Max. energy capacity per minute	J/min	539	
Collision speed range	m/s	2 or less	
(Note 3) Max. resisting force	N	6860	
(Note 2) Rod returning force	N	27.3	
(Note 2) Rod return time	s	0.5	
Max. working cycle	times/min	60	
Working temperature range	°C	−5 to +70 (No freezing)	
Mounting style		FA style	
Weight g	Body	411	460
	Mounting accessory	FA accessory:160	
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°C. The max. energy capacity per minute E_2 (J/min) at an ambient temperature T (°C) is indicated by the following formula.

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

(Note 2) Maximum value when rod is retracted a stroke of 25 mm.

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