Shock Absorber （Two-Stage Motion W Type）

2-step Motion W Type Irregular Multi-orifice/Analog-adjustable **W-A2M20**

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.
- Since their outer surfaces are threaded, they can be handled easily in the same manner as when fitting bolts.
- They are small but very softly absorb impact.
- Suitable for absorbing shock caused by air cylinder.

Specification

Model number			W-A2M20N016SD (Standard type)	W-A2M20S016SD-C (With cap)
Energy absorption range		J	5.88 to 29.4	
Stroke		mm	16	
Corresponding (equivalent) weight range		kg	200	
(Note 1) Max. energy capacity per minute		J/min	343	
Collision speed range		m/s	2 or less	
(Note 3) Max. resisting force		N	4900	
(Note 2) Rod returning force		N	18.0	
(Note 2) Rod return time		s	0.5	
Max. working cycle		times/min	60	
Working temperature range		℃	−5 to +70 (No freezing)	
Mounting style			FA style	
Weight g	Body		180	202
	Mounting accessory		FA accessory:110	
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 16 mm.

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