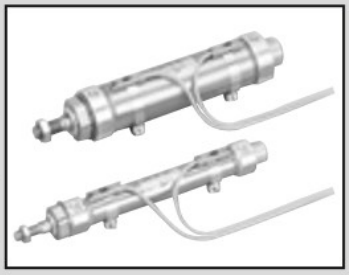
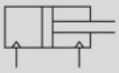


Medium bore size cylinder
Double acting/rubber-air cushioned

CMK2-*C Series

● Bore size: ø20/ø25/ø32/ø40
Port size: Rc 1/8

JIS symbol ● Double acting cylinder single rod



RoHS CAD

Specifications

Item	CMK2			
Bore size	ø20	ø25	ø32	ø40
Actuation	Double acting			
Working fluid	Compressed air			
Max. working pressure MPa	1.0 (≈150 psi, 10 bar)			
Min. working pressure MPa	0.2 (≈29 psi, 2 bar)			
Proof pressure MPa	1.6 (≈230 psi, 16 bar)			
Ambient temperature °C	-10 (14°F) to 60 (140°F) (no freezing)			
Port size	Rc1/8			
Stroke tolerance mm	$^{+2.0}_{0}$(Up to 200), $^{+2.4}_{0}$(More than 200)			
Working piston speed mm/s	50 to 500 (Operate within the absorbed energy.)			
Cushion	Rubber-air cushion			
Lubrication	Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication)			
Allowable absorbed energy J	0.089	0.137	0.179	0.278

Stroke

Bore size (mm)	Standard stroke (mm)	Max. stroke (mm)		Min. stroke (mm)	
		Without bellows	With bellows	Without bellows Bellows "L"	Bellows "J"
ø20	25/50/75/100/ 150/200/250/ 300	750	650	5	25
ø25					
ø32					
ø40					

*1: The custom stroke is available in 1 mm increments.
*2: One side foot (LS) has the max. stroke of 50 mm.
*3: Contact CKD when stroke shorter than 25 mm is necessary for "J" bellows.

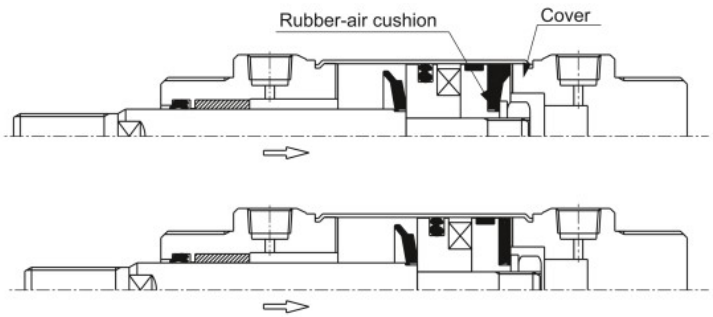
Min. stroke with switch

(Unit: mm)

Switch quantity	1						2						3					
	Proximity			Reed			Proximity			Reed			Proximity			Reed		
Bore size (mm)	T2, T3	T2W, T3W	T1, T*Y*	T0, T5	T8		T2, T3	T2W, T3W	T1, T*Y*	T0, T5	T8		T2, T3	T2W, T3W	T1, T*Y*	T0, T5	T8	
ø20	10						25	30	35	25	35		50	55	55	50	55	
ø25	10						25	30	35	25	35		50	55	55	50	55	
ø32	10						25	30	35	25	35		50	55	55	50	55	
ø40	10						25	30	35	25	35		50	55	55	50	55	

*1: Up to 3 switches can be mounted.

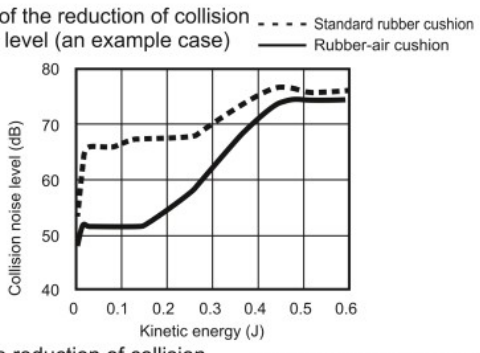
■ Rubber-air cushion mechanism



When pulled

An airtight space is created in the ■ area when the piston operates and the rubber-air cushion and cover make contact. Air in the airtight area is further compressed, absorbing energy as the piston operates. At the end of the stroke, energy generated by compression distortion of the air cushion is also added.

Data of the reduction of collision noise level (an example case)



Data of the reduction of collision acceleration level (an example case)