

SCP\*3

CMK2

CMA2

## Pneumatic components

# **Safety Precautions**

Be sure to read this section before use.

Refer to Intro Page 73 for general information of the cylinder, and to Intro Page 80 for general information of the cylinder switch.

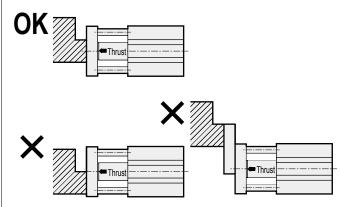
# **Design/selection**

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Use within the allowable load. Exceeding the allowable lateral load or allowable torque may cause damage, etc. Refer to the reference materials for selection on page 1061.

#### Do not use as a stopper.

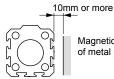
Use this product in applications that are not subject to lateral loads with impact, such as pushers and lifters. When the unit is going to be used by pressing down on the cylinder part-way in the stroke, be sure to apply thrust on the end plate towards the piston rod axis direction. When the unit is going to be used by pressing down on the cylinder with a clamp, etc., part-way in the stroke, thrust will work on the end plate so that eccentric pressure may lead to damage of parts. Use at the piston rod shaft core as in the figure below.



# Mounting, installation and adjustment

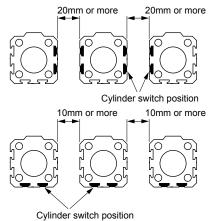
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The cylinder switch may malfunction if there is a magnetic substance such as a metal plate installed adjacently. Confirm that a distance of at least 10 mm is allocated from the surface of the cylinders. (Same for all bore sizes)

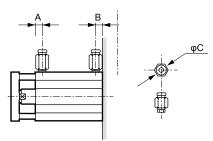


Magnetic substances of metal plates, etc.

The cylinder switch may malfunction if cylinders are installed adjacently. Check that the following distances are allocated between cylinders. (Same for all bore sizes)



Be sure to attach a speed controller during piping before use. As compatible piping fittings are limited, refer to the table below to select the fitting.



Descriptions	Port	Port p	osition	Applicable	Fitting O.D.	Inapplicable
Bore size (mm)	size	Α	В	fittings	φC	fittings
φ12	M5	5.5	5.5	SC3W-M5-4		
φ16				SC3W-M5-6 GWS4-M5-S	φ11 or	GWS6-M5
φ20		8	5.5	GWS4-M5 GWL4-M5 GWL6-M5	less	GVVS0-IVIS
φ25		11	6			
φ32	Rc1/8	8	8	SC3W-6-4, 6, 8 GWS4-6 GWS6-6 GWS8-6 GWL4-6	φ15 or	GWS10-6 GWL8-6
φ40	*1	12	8.5	GWL6-6 GWL8-6 GWL4-6	less	GWL0-6
φ50	Rc1/4	10.5	10.5	SC3W-8-6, 8, 10 GWS4-8 GWS6-8 GWS10-8 GWL4 to 12-8	φ21 or less	GWS12-8
φ63		13	11			
φ80	Rc3/8	16	13	SC3W-10-6, 8, 10 GWS6-10 GWS8-10 GWS10-10 GWL6 to 12-10	φ21 or less	_
φ100		23	15			

 $^{\star 1}$  :The  $\phi 32$  bore size with a 5 mm stroke and without a switch has a port size of M5.

Refer to the dimensions for the port dimensions.

SCM SCG SCA2 SCS2 CKV2 CAV2/ COVP/N2 SSD2 SSG SSD CAT MDC2 MVC SMG MSD/ MSDG FC\* STK SRL3 SRG3 SRM3 SRT3 MRL2 MRG2 SM-25 ShkAbs FJ FK Spd Contr Ending

КD

# Safety precautions

Mounting, installatio	on and adjustment	SCP*3
ACAUTION	Allowable absorbed energy value	CMK2
■ Do not damage surface flatness by denting or	Use this cushion within the range of the allowable absorbed energy When the unit will be used where the allowable absorbed energy	
scratching the end plate surface. Make sure that the flatness of the mating surface where	will be exceeded, provide a separate external shock absorber. For details on the allowable absorbed energy	SCM
the end plate will be attached is 0.05mm or below.	value, refer to the field for specifications.	SCG
Use/main	tenance	SCA2
A CAUTION		SCS2
■ Do not disassemble the product. Once		CKV2
disassembled, the performance may not be retained.		CAV2/ COVP/N2
		SSD2
		SSG
		SSD
		CAT
		MDC2
		MVC
		SMG
		MSD/ MSDG
		FC*
		STK
		SRL3
		SRG3
		SRM3
		SRT3
		MRL2
		MRG2
		SM-25
		ShkAbs
		FJ
		FK
		Spd Contr
		Ending