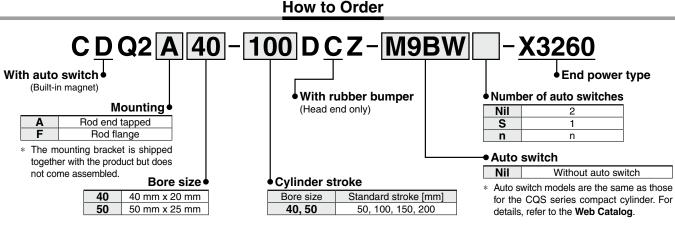


20-E755

CDQ2A-X3260



Specifications

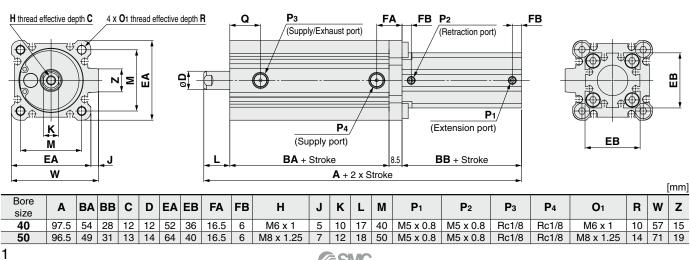
		40	50								
Bore size [mm]	Output cylinder	40	50								
Boro oizo [mm]	Assist cylinder	20	25								
Action		Double acting, Single rod									
Fluid		Air									
Proof pressure		1.0 MPa									
Max. operating pressure		0.7 MPa									
Min. operating press	sure*1	0.2 MPa									
Ambient and fluid temperatures		-10°C to 60°C (No freezing)									
Lubrication		Not required (Non-lube)									
Piston speed		50 to 300 mm/s									
Stroke		50, 100, 150, 200									
Stroke length tolerance*2		0 to +1.4 mm									
Cushion		Rubber bumper (Head end only)									
Dort size	Output cylinder	Rc	1/8								
Port size Assist cylinder		M5									
Allowable kinetic en	ergy	0.09 J	0.15 J								
Mounting		Tap mounting type (Rod end only)			*1	*1 Refer to "Handling"	*1 Refer to "Handling 6."	*1 Refer to "Handling 6."	*1 Refer to "Handling 6."	*1 Refer to "Handling 6."	*1 Refer to "Handling 6."
Mounting bracket		Rod flange		;	×2	2 The stroke lengt	∗2 The stroke length tolerance	2 The stroke length tolerance does no	2 The stroke length tolerance does not include the stroke length tolerance does not include the stroke does not	*2 The stroke length tolerance does not include	*2 The stroke length tolerance does not include the
Output stroke		5 mm (Extending operation only)					amount of bumper change.				

Theoretical Output

				OUT -		N	Unit: N)	
Size	Bore size [mm]		Operating direction		Operating pressure [MPa]			
Size	Output cylinder	Assist cylinder	Operating direction		0.3	0.5	0.7	
	40	20	IN		66	107	147	
40			OUT	Assist stroke	94	157	220	
				Output stroke*1	425	723	1,021	
	50	25	IN		107	174	242	
50			OUT	Assist stroke	147	245	344	
				Output stroke*1	679	1,148	1,616	

*1 Output stroke: output is only generated 5 mm in front of the stroke end.

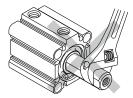
Dimensions



Handling

≜Caution

1. When installing or removing load, be sure to secure the piston rod width across flats part with the piston rod in a fully retracted state.



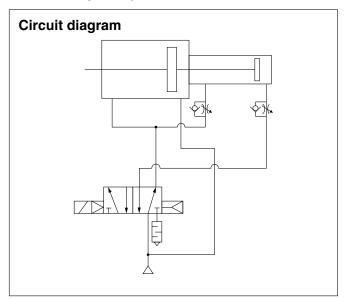
2. Avoid using the air cylinder in such a way that rotational torque would be applied to the piston rod. Failure to do so may result in the loosening of the joint screw part inside the cylinder, leading to unexpected failure.

Use the table below as a guide for the allowable rotational torque ranges.

Allowable rotational torque	40	50
N·m or less	0.2	0.25

Operate the cylinder so that the load to the piston rod is always applied in the axial direction.

3. Pipe according to the circuit diagram shown below when using this cylinder.



- 4. Supply the same amount of air pressure to both the assist cylinder and the supply port at all times. If the supply pressure differs, a malfunction may result.
- 5. Be aware that the cylinder's retraction output is the retraction output of the assist cylinder.
- 6. When using at the min. operating pressure, if the stopping time is increased, a sticking phenomenon may occur when restarting, preventing operation. If this happens, raise the supply pressure and perform several pre-conditioning interim operation cycles to solve the problem. Be aware of how to perform this operation beforehand.
- 7. When the cylinder's operating speed is to be controlled, a speed controller should be installed at the top of the assist cylinder's piping.
- 8. When mounting an auto switch, attach it to the assist cylinder.

A Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and the "CQ2 Series Specific Product Precautions" before use.

SMC Corporation

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