

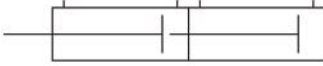
JIG CYLINDERS C SERIES TANDEM CYLINDERS

Double Acting Type,
Single Acting Push Type



Symbols

● Double acting type



● Single acting push type



Specifications

Bore size mm [in.]		12	16	20	25	32	40	50	63	80	100	
Item		[0.472]	[0.630]	[0.787]	[0.984]	[1.260]	[1.575]	[1.969]	[2.480]	[3.150]	[3.940]	
Operation type		Double acting type, Single acting push type						Double acting type				
Media		Air										
Operating pressure range MPa [psi.]	Double acting type	0.2~1.0 [29~145]						0.1~1.0 [15~145]				
	Single acting type	0.3~1.0 [44~145]						0.2~1.0 [29~145]		—		
Proof pressure MPa [psi.]		1.5 [218]										
Operating temperature range °C [°F]		0~60 [32~140] (The heat resistant specification is 120 [248]. <small>Note 1</small>)										
Operating speed range mm/s [in./sec.]	Double acting type	30~500 [1.2~19.7]						30~300 [1.2~11.8]				
	Single acting type	100~500 [3.9~19.7]						100~300 [3.9~11.8]		—		
Cushion		Rubber bumper (Option <small>Note 2</small>)						—				
Lubrication		Not required (If lubrication is required, use Turbine Oil Class 1 [ISO VG32] or equivalent.)										
Port size		M5×0.8			Rc1/8		Rc1/4		Rc3/8			

Remark: For Handling Instructions and Precautions, see p.205.

- Notes: 1. For heat resistant specification, consult us.
2. Not available for heat resistant specification.

Bore Size and Stroke

For non-standard strokes, see p.206.

Operation type	Stroke 1 Bore size	mm											
		5	10	15	20	25	30	35	40	45	50	75	100
Double acting type CDAT CDATS	12, 16	0.5, 10 15, 20, 25	0.5, 10 15, 20	0.5, 10, 15	0.5, 10	0.5	0	—	—	—	—	—	—
	20, 25	0.5, 10, 15 20, 25, 30 35, 40, 45	0.5, 10, 15 20, 25, 30 35, 40	0.5, 10 15, 20, 25 30, 35	0.5, 10, 15 20, 25, 30	0.5, 10 15, 20, 25	0.5, 10 15, 20	0.5, 10, 15 15, 20	0.5, 10, 15 40, 65	0.5, 10 35, 60	0.5 0	—	—
	32, 40	0.5, 10, 15 20, 25, 30, 35 40, 45, 70, 95	0.5, 10, 15 20, 25, 30, 35 40, 65, 90	0.5, 10, 15 20, 25, 30 35, 60, 85	0.5, 10, 15 20, 25, 30 55, 80	0.5, 10 15, 20, 25 50, 75	0.5, 10 15, 20 45, 70	0.5, 10, 15 40, 65	0.5, 10, 15 35, 60	0.5, 30, 55	0.25, 50	0.25	0
	50, 63 80, 100	—	0.5, 10, 15 20, 25, 30, 35 40, 65, 90	0.5, 10, 15 20, 25, 30 35, 60, 85	0.5, 10, 15 20, 25, 30 55, 80	0.5, 10 15, 20, 25 50, 75	0.5, 10, 15 20, 45, 70	0.5, 10, 15 40, 65	0.5, 10, 15 35, 60	0.5, 30, 55	0.25, 50	0.25	0
Single acting type CSAT CSATS	12, 16, 20 25, 32, 40	0.5, 10 15, 20, 25	0.5, 10 15, 20	0.5, 10, 15	0.5, 10	0.5	0	—	—	—	—	—	—
	50	—	0.5, 10, 15 20, 25, 30	0.5, 10 15, 20, 25	0.5, 10 15, 20	0.5, 10, 15	0.5, 10	0.5	0	—	—	—	—

- Remarks: 1. Stroke tolerance: Stroke 1 side $^{+1}_{-0.2} [^{+0.039}_{-0.008} \text{in.}]$, stroke 2 side $^{+1}_{0} [^{+0.039}_{0} \text{in.}]$
2. The figures in the table are combinations of stroke 2 (standard) responding to stroke 1 (standard).
3. In most cases, body cutting is used for the non-standard strokes.
However, body cutting is not used for "Stroke 1" or "Stroke 1 + Stroke 2" under the condition mentioned below. The collar packed is used for these cases.
 $\phi 12 \sim \phi 40$: less than 5mm
 $\phi 50 \sim \phi 100$: less than 10mm

● About stroke 1 and stroke 2

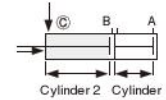
Stroke 1 is the stroke of cylinder 1.

Stroke 2 is obtained by subtracting stroke 1 from the stroke of cylinder 2.

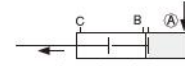
Operation of Tandem Cylinders

Tandem Cylinders are a set of 2 cylinders joined end to end.

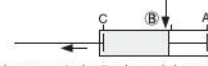
It can be used as a two-stage stroke cylinder by supplying air to either Port A or Port B. It can also obtain twice the thrust within the "stroke I" range.



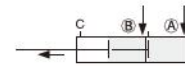
The rods retract strokes II and I when air is supplied from Port C.



The rod moves stroke I when air is supplied from Port A.



The rod moves stroke II when air is supplied from Port B.



Twice the thrust is obtained within the stroke I range when air is supplied from Ports A and B.