



Pneumatic Cylinders I
Catalog No. CB-029SA

Stopper cylinder Double acting/round rod end

STK Series

● Bore size: $\phi 20/\phi 32/\phi 40/\phi 50$

JIS symbol



Double acting



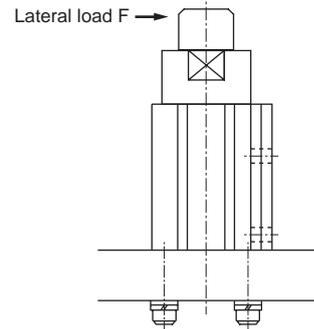
Specifications

Item	STK			
Bore size mm	$\phi 20$	$\phi 32$	$\phi 40$	$\phi 50$
Actuation	Double acting			
Working fluid	Compressed air			
Max. working pressure MPa	1.0			
Min. working pressure MPa	0.15	0.1		
Proof pressure MPa	1.6			
Ambient temperature °C	-10 to 60 (no freezing)			
Port size	M5	Rc1/8	Rc1/4	
Stroke tolerance mm	+2.0 0			
Working piston speed mm/s	50 to 500			
Cushion	With rubber cushion			
Lubrication	Not available			
Rod end shape	Round rod type			
Allowable absorbed energy J	Refer to the following figure			

Allowable lateral load

Unit: N

Bore size	Stroke				
	10	15	20	25	30
$\phi 20$	106.5	99.4	93.2	-	-
$\phi 32$	272.8	254.6	238.7	-	-
$\phi 40$	-	-	371.3	352.1	334.8
$\phi 50$	-	-	582.8	552.8	525.8

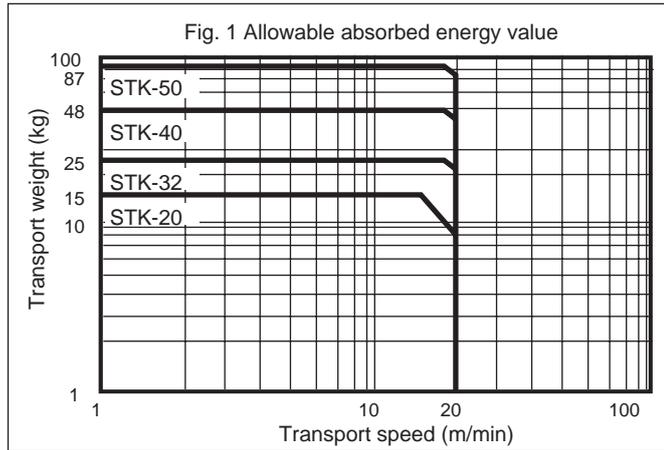


Stroke

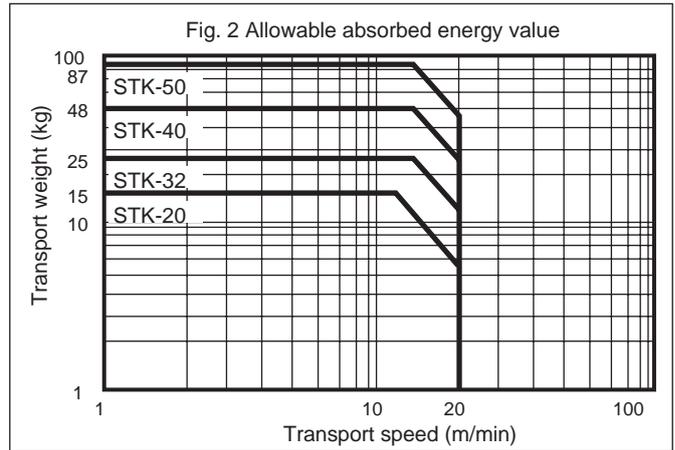
Bore size (mm)	Stroke (mm)	Max. Stroke (mm)	Min. Stroke (mm)	Min. stroke with switch (mm)
$\phi 20$	10, 15, 20	20	10	10
$\phi 32$				
$\phi 40$	20, 25, 30	30	20	20
$\phi 50$				

Note: Products other than standard Stroke are made-to-order products.

A. Rod side mount



B. Head side mount



(Note) Rod end form: Compatible with all round rod types/chamfered types/rollers.

Compatibility table by variation

Applicable bore size	P4 P40	Double acting/ single rod	Single acting/ push	Single acting/ pull	Contact CKD for other variations.
		X	Y		
ø20 to 50	P4	●		○	
	P40	●		○	

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

How to order

Without switch

STK - 20 - 10 - N11 P4 P40

With switch

STK - 20 - 10 - SW11 - R - N11 P4 P40

A Bore size

B Stroke

C Switch model No.
*1

D Switch quantity

E Option

Code	Description				
A Bore size (mm)					
20	ø20				
32	ø32				
40	ø40				
50	ø50				
B Stroke (mm)					
Bore size		ø20	ø32	ø40	ø50
10	10	●	●	□	□
15	15	●	●	□	□
20	20	●	●	●	●
25	25	□	□	●	●
30	30	□	□	●	●
C Switch model No.					
Refer to the compatibility table on Intro Pages 23 to 26 for switch model No.					
D Switch quantity					
R	1 on rod side				
H	1 on head side				
D	2				
E Option					
Blank	Rod end no thread				
N11	With rod end female thread				

⚠ Precautions for model No. selection

*1: Switches are shipped with the product. Contact CKD if assembling before shipment is necessary.

Related products

		Speed controller							Description page
Model No.	Appearance	Port size (Rc or R)			Compatible tube O.D.				
		M5	1/8	1/4	4 (ø4)	6 (ø6)	8 (ø8)	10 (ø10)	
SC3W-M5- *-P4		●			●	●			530
SC3W-6- *-P4			●		●	●	●		
SC3W-8- *-P4				●		●	●	●	

Specify the compatible tube O.D. code for *.

P4 Series

Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch

Vacuum components
Pneumatic valves
Clean air components

Pneumatic auxiliary components
Speed controller
Fitting
Auxiliary valve
Silencer

Tube

Gas generator
Fluid control components

Motor specification
Motorless specifications