Cylinder sc SC(Big) SCT SCF SU SUF SI SIF





## **Specifications**

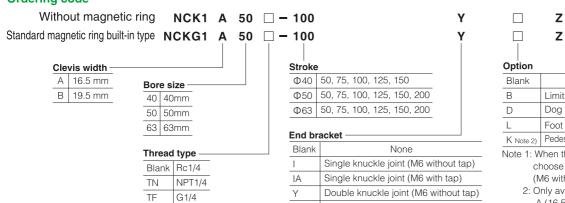
Bore size(mm)	40	50	63					
Fluid	Air							
Proof pressure	1.5 MPa							
Maximum operating pressure		1.0 MPa	_					
Minimum operating pressure		0.05 MPa						
Ambient and fluid temperature	Without magnetic switch: -10℃ to 70℃ With magnetic switch: -10℃ to 60℃							
Piston speed (mm/s)	50 to 500							
Cushion	Unclamped side (head end): With air cushion							
Speed controller	Equipped on both ends							
Lubrication	Non-lube							
Stroke length tolerance	+1.0 0							
Mounting Note)	Double clevis							

Note: A clevis pin, cotter pins, flat washers are equipped as a standard.

## Standard stroke table

Bore size(mm)	Standard stroke (mm)				
40	50, 75, 100, 125, 150				
50. 63	50, 75, 100, 125, 150, 200				

# **Ordering code**



YΑ

Note: A knuckle pin, cotter pins and flat washers are provided as a standard for Y and YA.

Double knuckle joint (M6 with tap)

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	Z

Blank	None					
B Limit switch mounting base						
D	Dog fitting Note 1)					
L	Foot					
K Note 2)	Pedestal (for 75, 100, 150 strokes only)					

Note 1: When the dog fitting is selected, choose the rod end bracket IA or YA (M6 with tap).

2: Only available for clevis width A (16.5 mm)

## **End bracket/Options**

Symbol	Description	Part No.				
Syllibol	Description	NCK1A/NCKG1A	NCK1B/NCKG1B			
I	Single knuckle joint	M6 without tap	NCKB-104			
IA	Single kildekle jollit	M6 with tap	NCKB-IA04			
Υ	Double knuckle joint (A knuckle pin, cotter pins,	M6 without tap	NCKA-Y04	NCKB-Y04		
YA	flat washers are equipped as a standard.)	M6 with tap	NCKA-YA04	NCKB-YA04		

#### Theoretical output

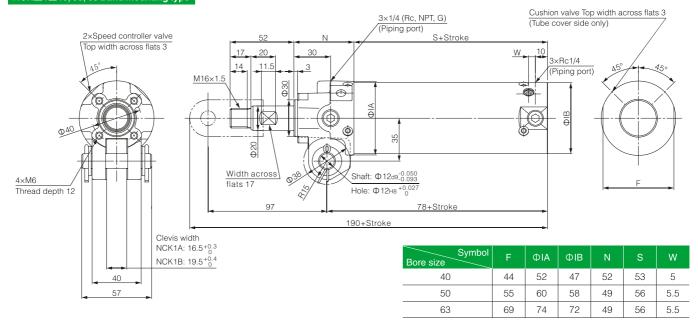
Unit: N

	•						Omit. IV	
Bore size	Rod size	Operating	Piston area	Operating pressure (MPa)				
(mm)	(mm)	direction	(mm²)	0.3	0.4	0.5	5 0.6 0 756 2 566 0 1180 5 990	
40	20	OUT	1260	378	504	630	756	
40	20	IN	943	283	377	472	566	
50	20	OUT	1960	588	784	980	1180	
	20	IN	1650	495	660	825	990	
63	20	OUT	3120	934	1250	1560	1870	
	20	IN	2800	840	1120	1400	1680	

# Cylinder SC SC(Big) SCF SL SUF S SIF DNC QGB QGBZ NCQ2 NCQ2(Big) NCQ2(Long) NCQS NCOM NRC SDA ADVU ACE(AND) MAL MA M NCM2 NCJ2 NCG: NCJF TD TN(TDA) NCXS NCXSW NMGF NMGG NCU NCU. NCY3B NCY3R NCY1S NCY1L STM NMXH NMXS NMXC NMHZ2 NMHC2 NMHL2

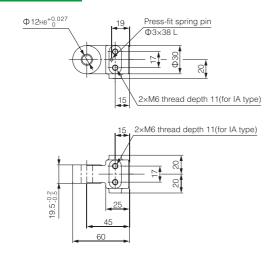
#### **Dimensions**

#### NCK□1□40, 50, 63 Band mounting type



#### **End bracket**

### Single knuckle joint



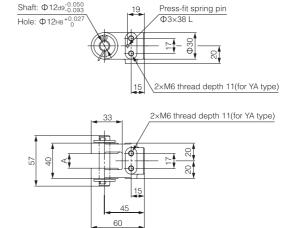
#### Material: Cast iron

Part No.	End bracket symbol	Applicable clamp cylinder		
NCKB-I04	I (M6 without tap)	NCK□1A series		
NCKB-IA04	IA (M6 with tap)	NCK□1B series		

Note: 1. A spring pin is attached to the single knuckle joint as a standard.
2. The current model is equivalent to the component part number

NCKB-IA04 (end bracket symbol IA).

### Double knuckle joint



#### Material: Cast iron

Part No.	End bracket symbol	Α	Applicable clamp cylinder	
NCKA-Y04	Y (M6 without tap)	16.5 <sup>+0.3</sup>	NOVE 1 A series	
NCKA-YA04	YA (M6 with tap)	16.5 0	NCK□1A series	
NCKB-Y04	Y (M6 without tap)	19.5 <sup>+0.4</sup>	NOVE 1D agrica	
NCKB-YA04	YA (M6 with tap)	19.5 0	NCK□1B series	

Note: 1. A knuckle pin, cotter pins, flat washers and a spring pin are attached to the double knuckle joint as a standard.

2. The current model is equivalent to the component part number NCKA-YA04, NCKB-YA04 (end bracket symbol YA).

## Pin

NMHY2 NMHT2 NMHW2

NMHF2

NMHS2

NMHS3

NMHS4

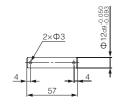
NMRHQ

NMSQ NCRA1

NCRQ2

ACK SRC QCK

NCK.



#### Material: Carbon steel

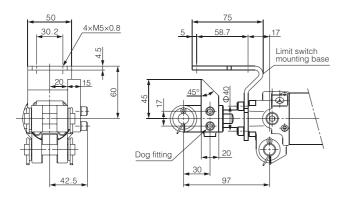
Material. Carbon St	Material. Garbon Steel									
Part No.	Usage									
NCK-P04	Knuckle pin Clevis pin									

Note: Cotter pins and flat washers are attached to the pin as a standard.



## **NCK1 Series options**

### Limit switch mounting base/Dog fitting



#### Material: Rolled steel

Part No.	Option symbol	Name	Applicable clamp cylinder		
NCK-B04	В	Limit switch mounting base	NCK□1A series		
NCK-D04	D	Dog fitting	NCK□1B series		

Note: 1. Limit switch mounting base and dog fitting can be repositioned by removing the hexagon socket head cap screw.

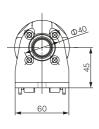
When ordering the limit switch mounting base and the dog fitting individually, mounting bolts (hexagon socket head cap screw) and spring washers will be attached as a standard.

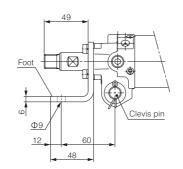


When you attach a dog fitting, be sure to use a knuckle joint, M6 with tap (end bracket symbol IA or YA).

The dog fitting cannot be attached to the knuckle joint, M6 without tap (end bracket symbol I or Y).

#### Foot





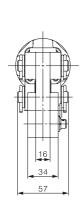
#### Material: Carbon steel

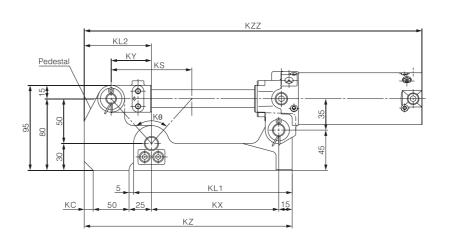
Part No.	Option symbol	Applicable clamp cylinder
NCK-L04	L	NCK□1A series NCK□1B series

Note: 1. A mounting bolt (hexagon socket head cap screw) and a spring washer will be attached as a standard for the foot bracket.

2. When mounting the cylinder, use both the foot and clevis pin.
Please avoid using the foot by itself as this may result in damage.

### Pedestal





### Material: Carbon steel

	Ontion										KZ	Amaliaabla		
Part No.	Option symbol	KL1	KL2	KS	KX	KY	KZ	Kθ	KC	NCKG□40	NCKP□40	NCKG□50 NCKP□50		Applicable clamp cylinder
NCKA-K075		167	75	70	132	35	222	69° 59'	0	360	365	36	60	NCK□1A40-75YZ NCK□1A50-75YZ NCK□1A63-75YZ
NCKA-K100	К	177	75	90	142	45	232	83° 58'	0		395			NCK□1A40-100YZ NCK□1A50-100YZ NCK□1A63-100YZ
NCKA-K150		202	85	140	167	70	267	108° 55'	10		480			NCK□1A40-150YZ NCK□1A50-150YZ NCK□1A63-150YZ

Note: Only available for the NCK ☐ 1A series (Clevis width 16.5 mm)

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Cylinder