



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 <small>Note)</small>	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

Without magnetic ring **NCK1 A 50** ☐ **- 100**
Standard magnetic ring built-in type **NCKG1 A 50** ☐ **- 100**

Clevis width	
A	16.5 mm
B	19.5 mm

Bore size	
40	40mm
50	50mm
63	63mm

Thread type	
Blank	Rc1/4
TN	NPT1/4
TF	G1/4

Stroke

Φ40	50, 75, 100, 125, 150
Φ50	50, 75, 100, 125, 150, 200
Φ63	50, 75, 100, 125, 150, 200

End bracket

Blank	None
I	Single knuckle joint (M6 without tap)
IA	Single knuckle joint (M6 with tap)
Y	Double knuckle joint (M6 without tap)
YA	Double knuckle joint (M6 with tap)

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

☐ **Y**
☐ **Z**

Option

Blank	None
B	Limit switch mounting base
D	Dog fitting <small>Note 1)</small>
L	Foot
K <small>Note 2)</small>	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.	
			NCK1A/NCKG1A	NCK1B/NCKG1B
I	Single knuckle joint	M6 without tap	NCKB-I04	
IA		M6 with tap	NCKB-IA04	
Y	Double knuckle joint (A knuckle pin, cotter pins, flat washers are equipped as a standard.)	M6 without tap	NCKA-Y04	NCKB-Y04
YA		M6 with tap	NCKA-YA04	NCKB-YA04

Theoretical output

Unit: N

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

Cylinder

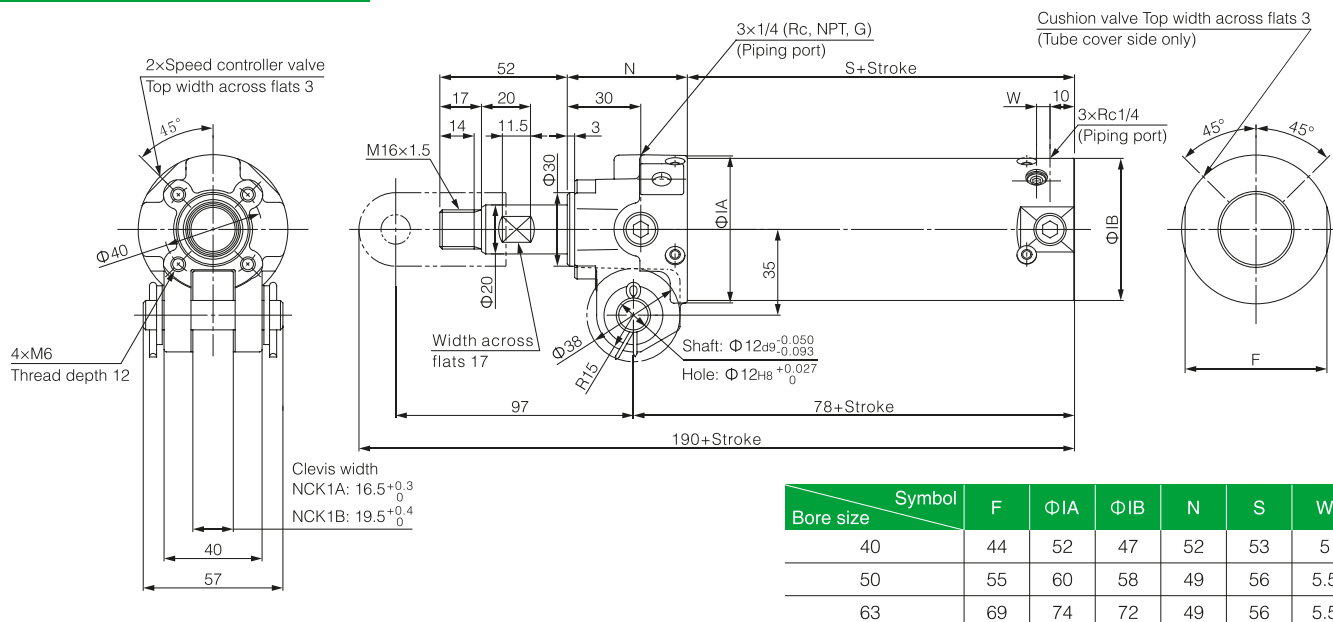
SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

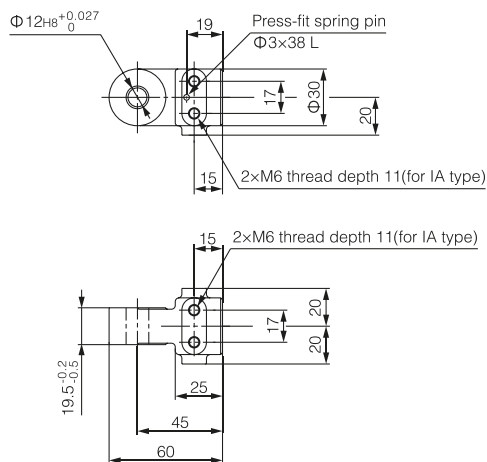
Dimensions

NCK□1□40, 50, 63 Band mounting type

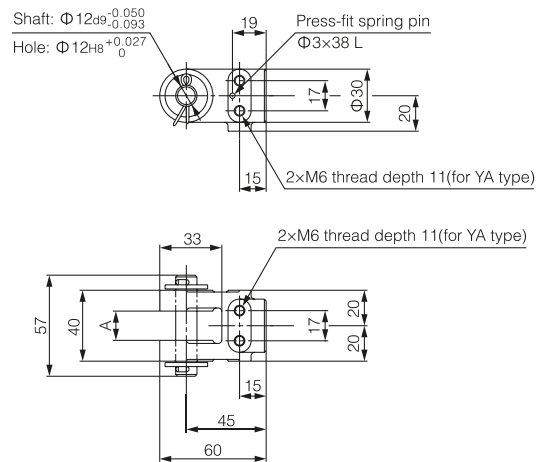


End bracket

Single knuckle joint



Double knuckle joint



Material: Cast iron

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

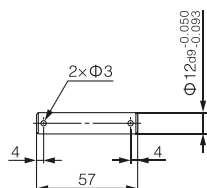
Note: 1. A spring pin is attached to the single knuckle joint as a standard.
2. The current model is equivalent to the component part number NCKB-IA04 (end bracket symbol IA).

Material: Cast iron

Part No.	End bracket symbol	A	Applicable clamp cylinder
NCKA-Y04	Y (M6 without tap)	$16.5^{+0.3}_0$	NCK□1A series
NCKA-YA04	YA (M6 with tap)		
NCKB-Y04	Y (M6 without tap)	$19.5^{+0.4}_0$	NCK□1B series
NCKB-YA04	YA (M6 with tap)		

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



Material: Carbon steel

Part No.	Usage
NCK-P04	Knuckle pin Clevis pin

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

