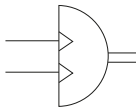




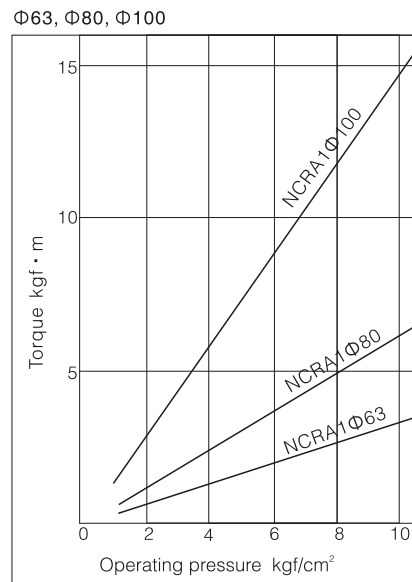
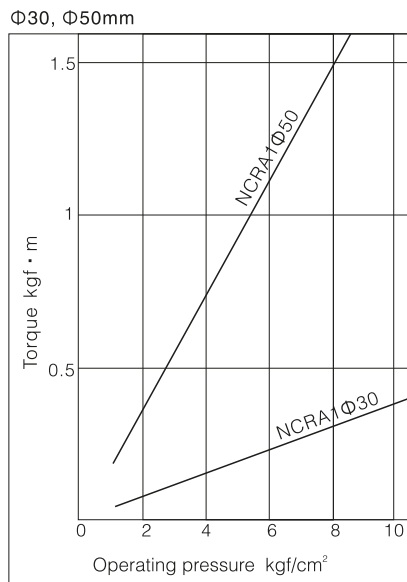
Symbol



Ordering code

NC D RA1 B		W	U	50	—	90		—	A73	
Built-in magnet		Shaft type		Bore size		Air cushion				
Blank	Without magnetic ring	S	Single shaft	30	30mm	Blank	None			
D	Built-in magnet	*W	Double shaft	50	50mm	*C	With air cushion			
Mounting		* Φ30 Only biaxial		63	63mm	* Except air-hydro type				
B	Basic type	* In addition, single axis tetrahedron (x), double axis keyed (y) and double axis tetrahedron (z) are available.		80	80mm	Magnetic switch model				
L	Foot type			100	100mm	Blank	Without magnetic switch (Built-in magnet)			
*F	Flange type			Rotating angle		* Refer to the right table for the model of magnetic switch.				
* Φ30 Without flange type				90	90°	* No built-in magnetic ring no such item.				
Angle adjusting unit				180	180°	Number of magnetic switches				
Blank	Without angle adjusting unit			* In addition, 100° and 190° are available.		Blank	2 pcs.			
U	With angle adjusting unit					S	1 pc.			
* Φ30 Without Angle adjusting unit. Maximum angle adjustment range is 90°.										
Example: 90° type - 0~90°										
180° type - 90°~180°										

Torque chart



Specifications

Bore size(mm)		30	50	63	80	100
Fluid		Air (to be filtered by 40μm filter element)				
Action form		Double acting				
Maximum operating pressure		1 MPa				
Minimum operating pressure		0.1 MPa				
Ambient and fluid temperature		0 to 60℃ (with no freezing)				
Backlash		None*	Within 1°			
Tolerance in rotating angle		+4° 0				
Lubrication		Don't need				
Output torque		1.9	9.3	17	32	74
Allowable kinetic energy (J)	Without cushion	0.01	0.05	0.12	0.16	0.54
	With air cushion	-	0.98	1.5	2.0	2.9
Swing time range (seconds/90°)		0.2~1	0.2~2	0.2~3	0.2~4	0.2~5
Port size		M5×0.8	1/8"	1/8"	1/4"	3/8"

Note: If lubrication is required, please use turbine No. 1 oil ISO VG32.

Cylinder

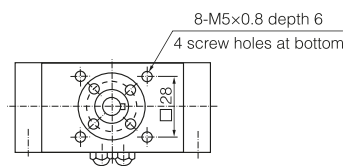
SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGp
NMGg
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2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

Cylinder

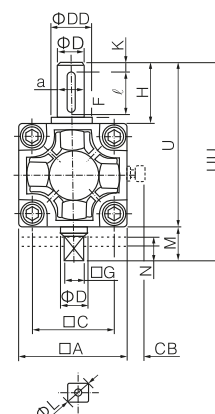
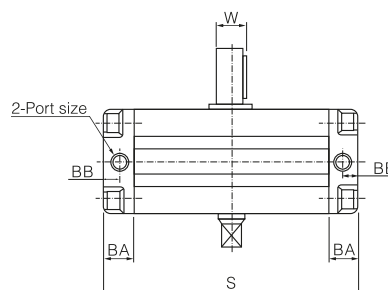
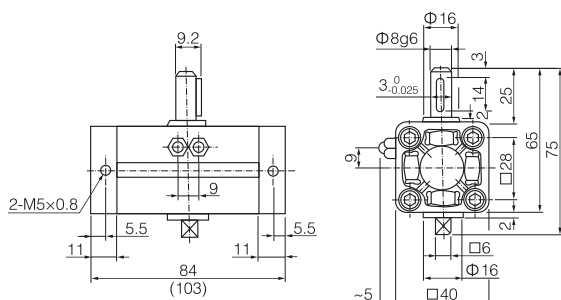
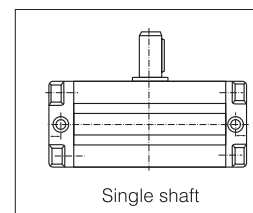
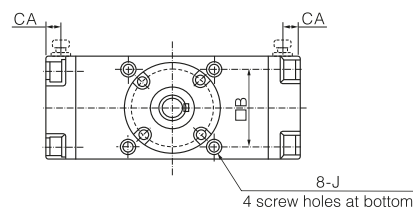
SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP
TD
TN(TDA)
NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
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STM
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NMHT2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

Dimensions

Φ30



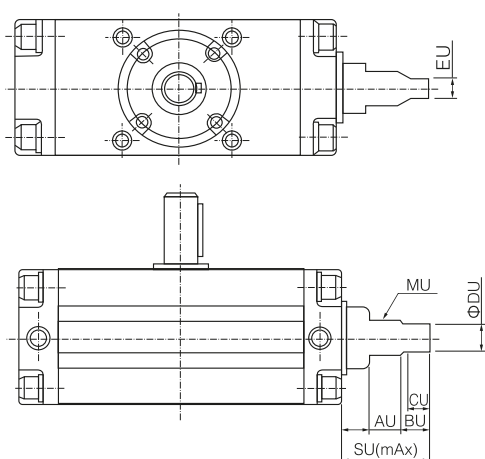
Φ50-Φ100



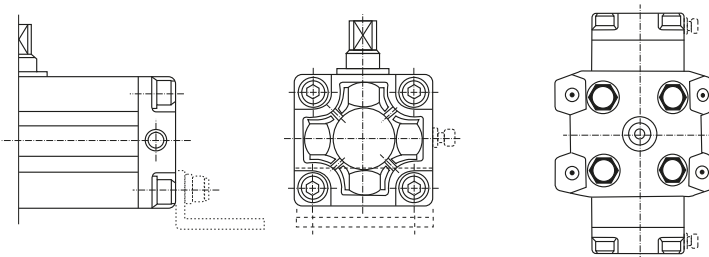
() : are the dimensions of 180°

Size	Port size (mm)	Basic Type: Single shaft																Flat key		Double shaft					Built-in magnet	
		□A	□B	□C	ΦD	ΦDD	F	H	J	K	S	U	W	BA	BB	CA	CB	a	I	ΦD	□G	ΦL	M	UU	S(90°)	S(180°)
50	1/8"	62	48	46	15	25	2.5	36	M8x1.25 depth 8	5	144 (177)	98	17	17	8.5	8.5	13	5 ⁰ _{-0.030}	25	15	11	14	20	118	156	189
63	1/8"	76	60	57	17	30	2.5	41	M10×1.5 depth 12	5	136 (201.5)	117	19.5	20	10	10	14	6 ⁰ _{-0.030}	30	17	13	16	22	139	175	213.5
80	1/4"	92	72	70	20	35	3	50	M12x1.75 depth 13	5	186 (230)	142	22.5	23.5	12	12	18	6 ⁰ _{-0.030}	40	20	15	19	25	167	199	243
100	3/8"	112	85	85	25	40	4	60	M12x1.75 depth 14	5	245 (311)	172	28	25	12.5	12.5	18	8 ⁰ _{-0.036}	45	25	19	24	30	202	259	325

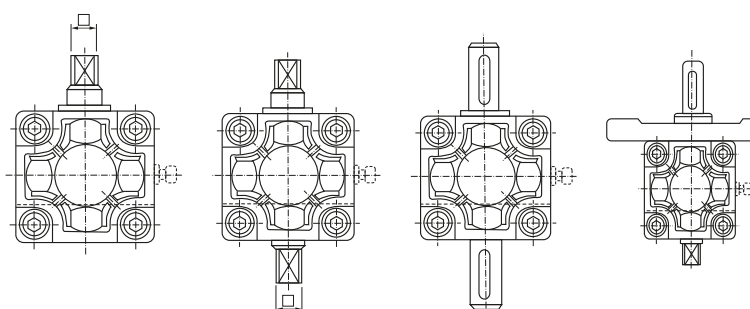
Angle adjustment type



Other forms only (Φ50~Φ100)



Foot type (NC□RA1L□)



* Please refer to the basic type for other dimensions

Model	AU	BU	CU	ΦDU	EU	SU	MU
NCRA1B□U50	15	11	9	14	12	45	M16x1.5
NCRA1B□U63	19	13	11	18	14	54.5	M20x1.5
NCRA1B□U80	22	16	13	22	19	62.5	M24x1.5
NCRA1B□U100	22	16	13	22	19	73.5	M24x1.5

Single shaft
with four chamfers
(NC□RA1B□)

Double shaft
with four chamfers
(NC□RA1B□)

Double shaft with key
(NC□RA1BY□)

Flange type
(NC□RA1F□)