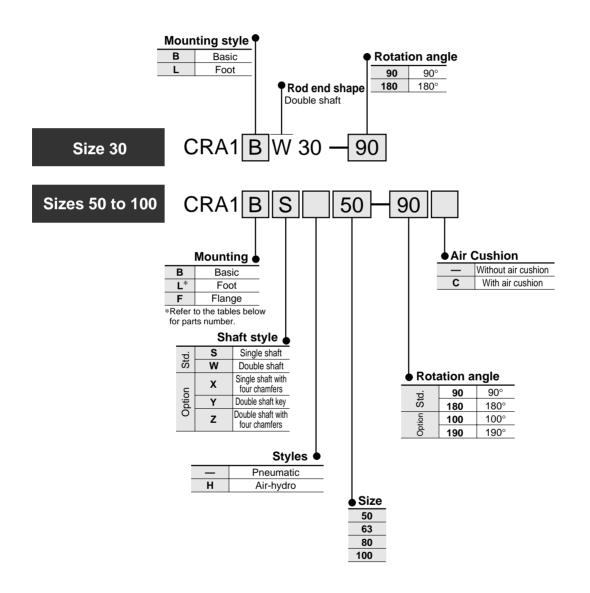
Rotary Actuator Series CRA1

Rack Pinion Style/Size: 30, 50, 63, 80, 100

How to Order



Foot Brackets Part No.



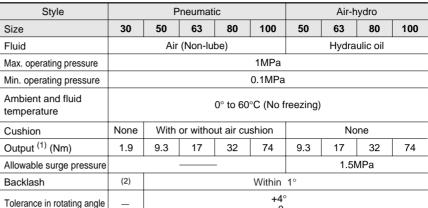
Size	Foot bracket	Mounting screws included in foot bracket	
30	CRA1L30-Y-1	M5 X 0.8 X 25	
50	CRA1L50-Y-1	M8 X 1.25 X 35	
63	CRA1L63-Y-1	M10 X 1.5 X 40	
80 CRA1L80-Y-1		M12 X 1.75 X 50	
100	CRA1L100-Y-1	M12 X 1.75 X 50	

Notes) The part numbers shown above include mounting screw.

As ordering foot bracket, write "1 piece" for the bracket for one rotary actuator.

Rotary Actuator Rack Pinion Style Series CRA1

Specifications



Note 1) Output under the operating pressure of 0.5MPa. Refer to p.1.0-28 for further information. Note 2) Since CRA1□30 has a stopper installed, there is no backlash produced under pressure.

CRB1

CRBU

CRA1

CRQ

MRQ

MSQ MSUB

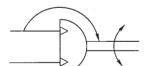
Allowable Kinetic Energy/Safe Range of Rotation Time

	Allo	wable kinetic en	rgy Safe range of rotation ti		
Model	Allowable kine	etic energy (J)	Cushion angle	Sale range of totation time	
	Without cushion	With cushion (1)	Cushion angle	Rotation time (s/90°)	
CRA1□W30	0.01			0.2 to 1	
CRA1□□50	0.05	0.98	35°	0.2 to 2	
CRA1□□63	0.12	1.5	35°	0.2 to 3	
CRA1□□80	0.16	2.0	35°	0.2 to 4	
CRA1□□100	0.54	2.9	35°	0.2 to 5	



Note 1) Allowable kinetic energy of the bumpers equipped model

The maximum absorbed energy under proper adjustment of the cushion needle.





Weight/Standard

11019111000110101				(kg
Maralal	Standar	d weight	Addition	al weight
Model	90°	180°	Foot bracket	Flange bracket
CRA1BW30	0.3	0.4	0.1	
CRA1BW50	1.5	1.7	0.3	0.5
CRA1BW63	2.5	3	0.5	0.9
CRA1BW80	4.3	5	0.9	1.5
CRA1BW100	8.5	9.5	1.2	2

Precaution

Be sure to read before handling. Refer to p.0-20 and 0-21 for Safety Instructions and common precautions on the products mentioned in this catalog, and refer to p.1.0-2 to 1.0-4 for precautions on every

Weight/With Auto Switches and Solenoid Valves

Weight/With Auto 3	wilches and Solen	olu valves	(kg)
Ci	Additional weight		
Size	With 2 auto switches	With solenoid valve*	
30	0.1	_	
50	0.2	0.2	
63	0.4	0.2	
80	0.6	0.2	
100	0.9	0.2	

* Weight of the solenoid valve is not included. Refer to p.1.3-17 concerning weight of the solenoid valve.



Series CRA1

Rotary Actuator with Built-in One-touch Fittings

CRA1 Mounting Shaft style Size F — Rotation Additional symbol With built-in one-touch fittings



Piping steps and installation space are saved.

Clean Series Rotary Actuator

11-CRA1	Mounting	Shaft type	Size	Rotation	Additional symbol
Clean ser	ies				

Vacuum ports are equipped to prevent dust from being produced from the rod part of the rotary actuators.

Specifications

Style	Pneumatic
Applicable size	30, 50
Max. operating pressure	1MPa
Min. operating pressure	0.1MPa
Auto switch	Mountable

Specifications

Style	Pneumatic
Applicable size	30, 50, 63
Max. operating pressure	1MPa
Min. operating pressure	0.1MPa
Auto switch	Mountable

Applicable Tube Specification

Size	30	50	63
Applicable tube O.D.	ø4	Ø	6
Applicable tube materials	Nylon, Soft nylon, Polyurethane		

Refer to p.1.3-8 to 1.3-10 for dimensions.

Copper Free Rotary Actuator

No influence on cathode ray tubes by copper ion and fluorine resin. As standard models are already made applicable to copper free styles, they can be applied as they are.

Specifications

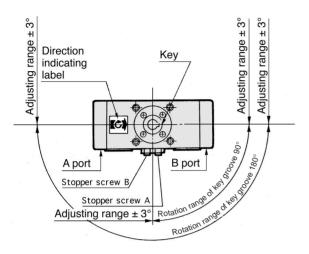
	- I		
Style Pneumatic			
Applicable size	30, 50, 63, 80, 100		
Max. operating pressure	1MPa		
Min. operating pressure	0.1MPa		
Auto switch	Mountable		

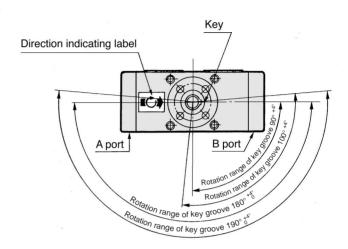
Rotation Range of Key Grooves

If air pressure is applied from the A side of the direction indication label, the shaft rotates clockwise. If air pressure is applied from the B side, the shaft rotates counterclockwise.

Size: 50 to 100

Size: 30





CRBU

CRB1

CRA1

CRQ

MRQ

MSQ

....

MSUB

Stopper screw A: For end adjustment in clockwise direction Stopper screw B: For end adjustment in counter clockwise direction.

How to Set The Rotation Time

Even if the torque that is generated by the rotary actuator is small, the parts could become damaged depending on the inertia of the load. Therefore, the rotation time should be determined by calculating the load's inertial moment and kinetic energy. Refer to p.1.0-33 and 1.0-34 for details on how to set the rotation time.

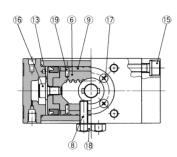
Allowable load on the shaft

Refer to the model selecting order step 3 for rotary actuators on p.1.0-14 concerning allowable loads on the shafts of series CRA1.

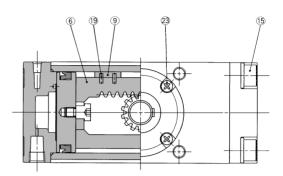
Series CRA1

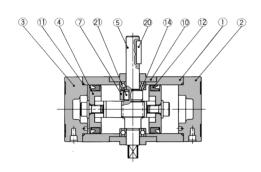
Construction

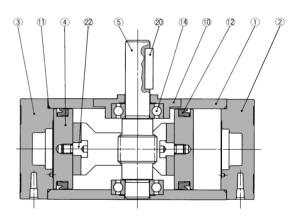
Without air cushion Size: 30



Without air cushion Size: 50 to 100







Component Parts

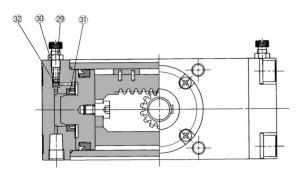
No.	Description	Material	Note
1	Body	Aluminum alloy	Hard anodized
2	Cover (Right)	Aluminum alloy	Black anodized
3	Cover (Left)	Aluminum alloy	Black anodized
4	Piston	Aluminum alloy	Chromated
(5)	Shaft	Chromium-molybdenum steel	
6	Rack	Carbon steel	Nitrided
7	Stopper	Chromium-molybdenum steel	
8	Stopper screw	Chromium-molybdenum steel	Black dyed
9	Slider	Resin	
10	Bearing retainer	Zink alloy (1)	Black painted
11)	Tube gasket	NBR	

Note 1) Size 50 to 100: Aluminum alloy (Black alumite)

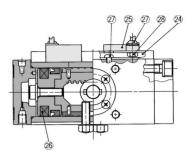
Component Parts

No.	Description	Material	Note
12	Piston packing	NBR	
13	O ring	NBR	
14)	Bearing	Carbon steel	
15	Hexagon socket head cap screw spring washer	Chromium-molybdenum steel	Black zinc chromated
16	Hexagon socket head cap flange screw	Chromium-molybdenum steel	Zinc chromated
17	Cross-recessed countersunk head screw	Steel wire	Black dyed
18	Hexagon nut	Steel wire	Black dyed
19	Spring pin	Steel wire	
20	Parallel key	Carbon steel	
21)	Parallel key	Carbon steel	
22	Connecting screw	Carbon steel	Zinc chromated
23	Cross-recessed round head screw	Steel wire	Black zinc chromated

With air cushion



With auto switch Size: 30



CRB1

CRBU

CRA1

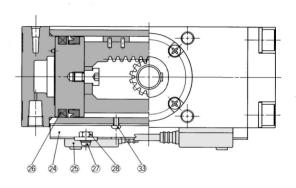
CRQ

MRQ

MSQ

MSUB

Size: 50 to 100



Component Parts

No.	Description	Material	Note
24)	Auto switch mounting rail	Aluminum alloy	
25	Auto switch		
26	Plastic magnet	Magnetic substance	
27)	Cross-recessed head cap screw	Steel wire	Nickel plated
28	Hexagon nut	Steel wire	Nickel plated
29	Needle valve	Steel wire	Nickel plated
30	Lock nut	Steel wire	Nickel plated
31)	Cushion packing	NBR	-
32	O ring	NBR	
33	Cross-recessed head cap screw	Steel wire	Nickel plated

Replacement Parts (Corresponding parts shown below are set.)

Size	Replacement parts									
Size	Standard	With air cushion	With auto switch	Air-hydro						
CRA1□W30-90	P294010-20		P294010-20							
CRA1□W30-180	P294010-21		P294010-21							
CRA1□□50	P294020-20A	P294020-20A	P294020-20A	P294020-23A						
CRA1□□63	P294030-20A	P294030-20A	P294030-20A	P294030-23A						
CRA1□□80	P294040-20	P294040-20	P294040-20	P294040-23						
CRA1□□100	P294050-20A	P294050-20A	P294050-20A	P294050-23A						
Corresponding parts	(9), (1), (12), and (19) are set.									

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Note) When ordering spare parts, write "1 piece" for 1 set of the parts for one actuator.

Size 50, 63, 80, 100/Standard: CRA1B \square

B port

BB



CRB1

CRBU

CRA1

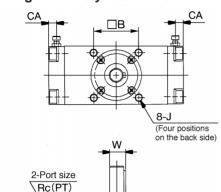
CRQ

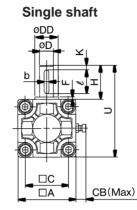
MRQ

MSQ

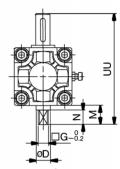
MSUB

Size: 50 to 100 Single shaft style/CRA1BS





Double shaft style/CRA1BW **Double shaft**



Note) Other dimensions are the same as the single

<u> </u>		snait.					
Models	D (g6)	G	М	N	UU	L	
CRA1BW50	15	11	20	15	118	14	
CRA1BW63	17	13	22	17	139	16	
CRA1BW80	20	15	25	20	167	19	
CRA1BW100	25	19	30	25	202	24	

*The dimensions above show pressurization to B port.

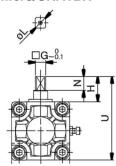
s

A port

*() are the dimensions for rotations of 180° and 190°.

Models	Port size	Α	В	С	D	DD	F	н		K	s	U	w	ВА	DD	CA*	CD*	Key dime	nsions
Models	Rc(PT)	А		٥	(g6)	(h9)	Г	П	J	N.	3	0	VV	DA	DD	CA	Б	b	e
CRA1BS50	1/8	62	48	46	15	25	2.5	36	M8 X 1.25 Depth 8	5	144 (177)	98	17	17	8.5	8.5	13	5-0.030	25
CRA1BS63	1/8	76	60	57	17	30	2.5	41	M10 X 1.5 Depth 12	5	163 (201.5)	117	19.5	20	10	10	14	6-0.030	30
CRA1BS80	1/4	92	72	70	20	35	3	50	M12 X 1.75 Depth 13	5	186 (230)	142	22.5	23.5	12	12	18	6-0.030	40
CRA1BS100	3/8	112	85	85	25	40	4	60	M12 X 1.75 Depth 14	5	245 (311)	172	28	25	12.5	12.5	18	8-0.036	45

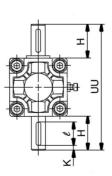
Single shaft with four chamfers/CRA1BX



Note) Other dimensions are the same as the single

	Silait.										
Models	G	Н	N	U	L						
CRA1BX50	11	27	15	89	14						
CRA1BX63	13	29	17	105	16						
CRA1BX80	15	38	20	130	19						
CRA1BX100	19	44	25	156	24						

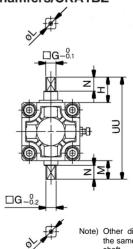
Double shaft key/CRA1BY



Note) Other dimensions are the same as the single

		onan	٠.	
Models	Н	K	UU	e
CRA1BY50	36	5	134	25
CRA1BY63	41	5	158	30
CRA1BY80	50	5	192	40
CRA1BY100	60	5	232	45

Double shaft with four chamfers/CRA1BZ



Note) Other dimensions are the same as the single shaft.

Models	G	H	M	N	UU	L
CRA1BZ50	11	27	20	15	109	14
CRA1BZ63	13	29	22	17	127	16
CRA1BZ80	15	38	25	20	155	19
CRA1BZ100	19	44	30	25	186	24

Single shaft CRA1BS Size .SCRA1 Size, According to #1 (#1+#16+#17), auto switch (#16) is eliminated. Double shaft

CRA1BW SizeSCRA1 Size , According to #2 (#2+#16+#17), auto switch (#16) is eliminated. Single shaft with four chamfers CRA1BX SizeSCRA1 Size , 13 (Shaft only)

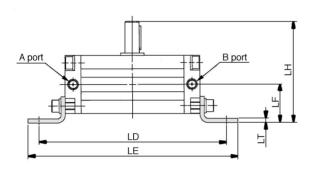
Double shaft key CRA1BY SizeSCRA1 Size, #14 (Shaft only)
Double shaft with four chamfers
CRA1BZ SizeSCRA1 Size, #15 (Shaft only)

Size 50, 63, 80, 100/Foot Style: CRA1L□, Flange Style: CRA1F□



Foot style/CRA1L□

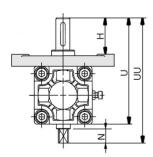
4-øLB Foot bracket Mounting hole



- *Dimensions above show pressurization to B port.
- *() are the dimensions for rotation of 180° and 190°

Models	LA	LB	LC	LD	LE	LF	LH	LT
CRA1L□□50	62	9	44	200 (233)	224 (257)	41	108	4.5
CRA1L□□63	76	11	55	235 (273.5)	263 (301.5)	48	127	5
CRA1L□□80	92	13	67	274 (318)	316 (360)	58	154	6
CRA1L□□100	112	13	87	333 (399)	375 (441)	73.5	189.5	6

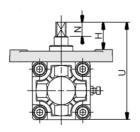
Flange style Double shaft/CRA1FW



()	Other dimensions are the same
	as the single shaft

Models	Н	N	U	UU
CRA1FW□50	39	15	114	134
CRA1FW□63	45	17	136	158
CRA1FW□80	55	20	165	190
CRA1FW□100	60	25	190	220

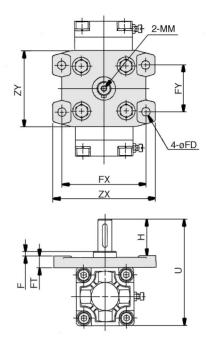
Flange style Single shaft with four chamfers/ **CRA1FX**



Other dimensions are the same as the single shaft.

Models	Н	N	U
CRA1FX□50	30	15	105
CRA1FX□63	33	17	124
CRA1FX□80	43	20	153
CRA1FX□100	44	25	174

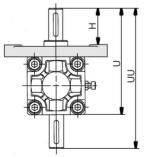
Flange style Single shaft/CRA1FS



Other dimensions are the same as standard

Models	F	Η	MM	U	FD	FT	FX	FY	ZX	ZY_
CRA1F□□50	4	39	M6 X1.0 Depth12	114	9	13	90	50	110	81
CRA1F□□63	5	45	M6 X1.0 Depth12	136	11.5	15	105	59	130	101
CRA1F□□80	5	55	M8 X1.25 Depth16	165	13.5	18	130	76	160	119
CRA1F□□100	5	60	M10 X1.5 Depth20	190	13.5	18	150	92	180	133

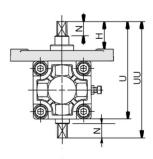
Flange style Double shaft key/ **CRA1FY**



Other dimensions are the same as the single shaft.

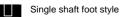
<i>a</i> as the sin	gic sila	11.	
Models	Н	U	UU
CRA1FY□50	39	114	150
CRA1FY□63	45	136	177
CRA1FY□80	55	165	215
CRA1FY□100	60	190	250

Flange style Double shaft with four chamfers/ CRA1FZ



Other dimensions are the same as the single shaft.

Models	Н	N	U	UU
CRA1FZ□50	30	15	105	125
CRA1FZ□63	33	17	124	146
CRA1FZ□80	43	20	153	178
CRA1FZ□100	44	25	174	204



CRA1L SizeSCRA1 Size, According to #5 (#5+#16+#17), auto switch (#16) is eliminated. Single shaft flange style

CRA1F SizeSCRA1 Size, According to #9 (#9+#16+#17), auto switch (#16) is eliminated. Double shaft flange style

CRA1FW SizeSCRA1 Size, According to #10 (#10#16+#17), auto switch (#16) is eliminated. CRA1FZ SizeSCRA1 Size, #15 (Shaft only)

Single shaft with four chamfers

CRA1FX SizeSCRA1 Size , #13 (Shaft only)

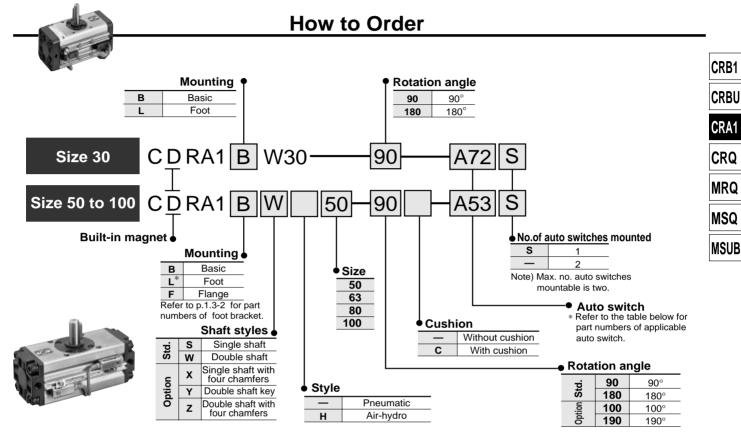
Double shaft key

.....SCRA1 Size, #14 (Shaft only) CRA1FY Size

Double shaft with four chamfers

Rotary Actuator with Auto Switch Series CDRA1

Rack Pinion Style/Size: 30, 50, 63, 80, 100



Auto Switch Specifications/Refer to p.2.11-1 for further specifications of auto switch single unit.

Style	Special function	Electrical entry	Indicator	Wiring		Load vo	Itage	Aut	to switch	part No.	Lead w	ire le (m)	ngth ⁽¹⁾		Annline	hlo lood	
Otyle	Opecial function	Liectrical entry	ndic	(Output)		DC	AC	Size	30	Size 50 to 100	0.5	3	5		Applica	able load	
			_		DC		AC	Perpendicular	In-line	In-line	(—)	(L)	(Z)	(N)			
			S	3 wire (Equivalent to NPN)		5V	_	_	A76H	A56	•	•	-		IC	_	
		Grommet	Yes		_		200V	A72	A72H	_	•	•	<u> </u>	_			
		Grommet				12V	100V	A73	A73H	_	•	•	•	_		Relay	
ڃ			٩			5V,12V	≤ 100V	A80	A80H		•	•	_	_	IC	PLC	
Reed switch		Connector	Yes			12V		A73C		_	•	•	•	•			
S		Grommet		1		12V				A53	•	•	•	_		PLC	
ěě		Connector	Yes No	2 wire	24V	5V,12V	≤ 24V	A80C		_	•	•	•	•	IC	Relay	
œ			Yes				100V,200V			A54	•	•	•	_	_	PLC	
		Grommet	No No						_	A67	•	•	_	—	IC	PLC	
				_			100V,200V		_	A64	•	•	_	—	IC	Relay	
	Diagnostic indicator (2 color)		Yes					A79W		A59W	•	•	_	_	_	PLC	
				2 wire		_	100V,200V		_	J51	•	•	0	—	_		
		Grommet		3wire(NPN)		5V,12V		F7NV	F79	F59	•	•	0	—	IC		
		Grommet		3wire(PNP)		30,120		F7PV	F7P	F5P	•	•	0	—	IC		
ţţ				2 wire		12V		F7BV	J79	J59	•	•	0	—	_		
Solid state switch	Connector	Connector	es	2 WIIG		12 V		J79C	_	_	•	•	•	•	_	Relay	
tate			>	3wire(PNP)	24V	5V,12V			F7PW	F5PW	•	•	0	—	IC	PLC	
D S	Diagnostic indicator (2 color)			3wire(NPN)	24 V	30,120			F79W	F59W	•	•	0	—	ic · = ·		
Sol		Grommet		2 wire					J79W	J59W	•	•	0	—	_		
	Water resistant (2 color) ⁽²⁾	Gioinnet		2 WII 6					F7BA ⁽²⁾	F5BA ⁽²⁾	_	•	0	—			
	Timer			3wire(NPN)		5V,12V			F7NT	F5NT	_	•	0	—		1	
	Diagnostic output (2 color)			4wire(NPN)		JV,12V				F59F	•		0	_	10		

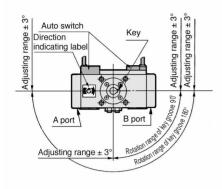
 Auto switches marked with "○" in the table are made to order specification. Note 2) This rotary actuator is not a improved product in water proof.
• Consult SMC when using F7BA* and F5BA*.

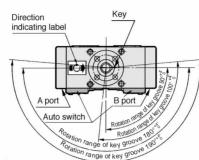
Series CDRA1

Rotation Range of Key Grooves/Switch Mounting Positions

Size: 30 CDRA1□W30

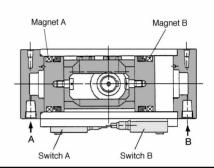
Size: 50 to 100 CDRA1□□50 to 100





Operation Principles

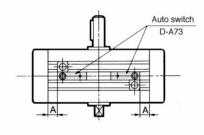
In the diagram below, switch B is ON. When pressure is applied from A, the piston moves to B, causing the shaft to rotate clockwise. At this time, magnet B goes out of the movement range of switch B, causing switch B to turn OFF. Furthermore, the piston moves to the right, causing magnet A to enter the movement range of switch A. As a result, switch A turns ON.

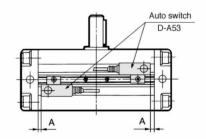


Proper Mounting Positions for Auto Switches

CDRA1□W30

CDRA1□□50 to 100





Operating range within proper mounting position (Lm/2)

Most efficient position of sensor

Operating range of the auto switch single body Lm

Operating angle θ m: Converts the operating range (Lm) of the auto switch into the rotation angle (1)Angle of hysteresis: The hysteresis of the auto switch is converted to degrees.

Model	A (mm)	Operating angle θm	Angle of hysteresis (1)
CDRA1□W30-90	9 (19)	95°	20°
CDRA1□□50-90	9 (26)	65°	20°
CDRA1□□63-90	11 (30)	60°	10°
CDRA1□□80-90	15 (37)	45°	7°
CDRA1□□100-90	27 (60)	35°	5°

- * The dimensions inside "()" are for 180°. ** Up to 2 auto switches can be mounted per actuator. The dimensions in the table are the values that represent the most sensitive positions of the auto switches. Thus, they are not the dimensions that represent the mounting position at the time of
- * Consult SMC concerning the angles for the auto switches other than the models D-A73 and D-A53.

⚠ Caution

Be sure to read before handling.

Refer to p.2.11-2 to 2.11-4 before handling auto switches.

Sets of mounting screws for auto switch (Round head Phillips screw, Hexagon nut)

Coto of mounting colono for date emiter	(Touria fload i fillipo coron, floxagori flat)
Model	Part No.
CDRA1□W30	P294010-24
CDRA1□□50 to100	P294020-24



Note 1) The above part numbers include 2 pieces of mounting screws and 2 pieces of nuts.

Note 2) To order a set for 1 unit, the ordering quantity should be "1".

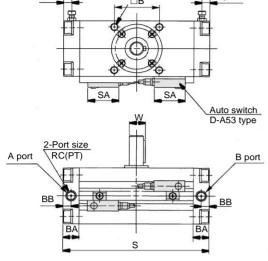
Series CDRA1

Size 50, 63, 80, 100/Standard: CDRA1B \square

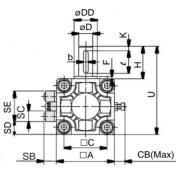
(4 positions on the back side)



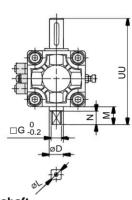
With auto switch Single shaft/CDRA1BS



Single shaft



Double shaft/CDRA1BW Double shaft



Double shaft

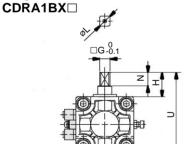
Model	D(g6)	G	М	N	UU	L
CDRA1BW50	15	11	20	15	118	14
CDRA1BW63	17	13	22	17	139	16
CDRA1BW80	20	15	25	20	167	19
CDRA1BW100	25	19	30	25	202	24

*The dimensions below show pressurization to B port. *() are the dimensions for rotation of 180° and 190°.

Single shaft

Model	Port size	Α	В	С	D	DD	F	Н	J	к	S	U	W	ВА	ВВ	СА	СВ	SA	SB	sc	SD	SE	Key dime	ensions
	Rc(PT)		_	-	(g6)	(h9)			_		_	_											b	e
CDRA1BS50	1/8	62	48	46	15	25	2.5	36	M8 X1.25 X 8	5	156(189)	98	17	17	8.5	8.5	13	33	13.5	12	14	34	5.0.030	25
CDRA1BS63	1/8	76	60	57	17	30	2.5	41	M10 X 1.5 X 12	5	175(213.5)	117	19.5	20	10	10	14	33	14.5	12	21	34	6.0.030	30
CDRA1BS80	1/4	92	72	70	20	35	3	50	M12 X 1.75 X 13	5	199(243)	142	22.5	23.5	12	12	18	33	15.5	12	29	34	6.0.030	40
CDRA1BS100	3/8	112	85	85	25	40	4	60	M12 X 1.75 X 14	5	259(325)	172	28	25	12.5	12.5	18	33	16	12	39	34	8 -0.036	45

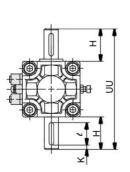
Single shaft with four chamfers/



Q	Other dimensions are the same as the single shaft.

	•				
Model	G	Н	N	U	L
CDRA1BX□50	11	27	15	89	14
CDRA1BX□63	13	29	17	105	16
CDRA1BX□80	15	38	20	130	19
CDRA1BX□100	19	44	25	156	24

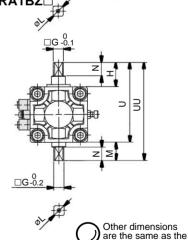
Double shaft key/CDRA1BY□



	نے	<i>))</i> are th	e shaft.	as the
Model	Н	K	UU	e
CDRA1BY□50	36	5	134	25
CDRA1BY□63	41	5	158	30
CDD A4DV = 00			400	40

CDRA1BY□100

Double shaft with four chamfers/ CDRA1BZ□



	single shaft.										
Model	G	Н	М	N	U	UU	L				
CDRA1BZ□50	11	27	20	15	89	109	14				
CDRA1BZ□63	13	29	22	17	105	127	16				
CDRA1BZ□80	15	38	25	20	130	155	19				
CDRA1BZ□100	19	44	30	25	156	186	24				

Single shaft CDRA1BS SizeSCRA1 Size , #1 (#1+#16+#17) Double shaft

CDRA1BW SizeSCRA1 Size, #2 (#2+#16+#17) Single shaft with four chamfers CDRA1BX SizeSCRA1 Size , #13 (Shaft only)

Double shaft key

CDRA1BY SizeSCRA1 Size, #14 (Shaft only)

Single shaft with four chamfers

CDRA1BZ SizeSCRA1 Size, #13 (Shaft only)

Series CDRA1

CRB1

CRBU

CRA1

CRQ

MRQ

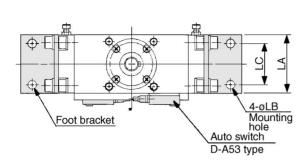
MSQ

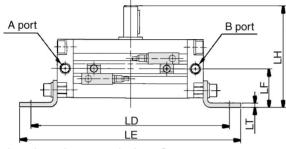
MSUB

Size 50, 63, 80, 100/Foot Style: CDRA1L, Flange Style: CDRA1LW



Foot style/CDRA1L□



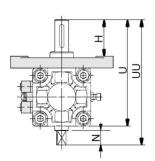


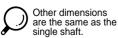
- $\ast \mbox{Dimensions}$ above show pressurization to B $\,$ port.
- *() are the dimensions for rotation of 180° and 190° $\,$

Model	LA	LB	LC	LD	LE	LF	LH	LT
CDRA1L□□50	62	9	44	212 (245)	236 (269)	41	108	4.5
CDRA1L□□63	76	11	55	247 (285.5)	275 (313.5)	48	127	5
CDRA1L□□80	92	13	67	287 (331)	329 (373)	58	154	6
CDRA1L□□100	112	13	87	347 (413)	389 (455)	73.5	189.5	6

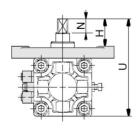
Flange style Double shaft/CDRA1FW

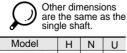
Flange style Single shaft with four chamfers /CDRA1FX





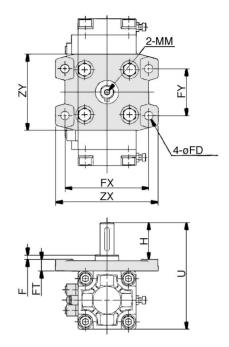
Model	Н	N	U	UU
CDRA1FW□50	39	15	114	134
CDRA1FW□63	45	17	136	158
CDRA1FW□80	55	20	165	190
CDRA1FW□100	60	25	190	220





Model	Н	N	U
CDRA1FX□50	30	15	105
CDRA1FX□63	33	17	124
CDRA1FX□80	43	20	153
CDRA1FX□100	44	25	174

Flange style Single shaft/CRA1FS



Other dimensions are the same as standard.

Model	F	Н	MM	U	FD	FT	FX	FY	ZX	ZY
CDRA1F□□50	4	39 M6 X 1.0 Depth 12		114	9	13	90	50	110	81
CDRA1F□□63	5	45	M6 X 1.0 Depth 12	136	11.5	15	105	59	130	101
CDRA1F□□80	5	55	M8 X 1.25 Depth 16	165	13.5	18	130	76	160	119
CDRA1F□□100	5	60	M10 X 1.5 Depth 20	190	13.5	18	150	92	180	133

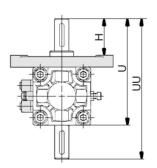
Flange style

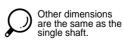
four chamfers

/CDRA1FZ

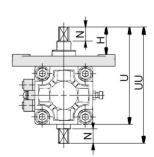
Double shaft with

Flange style
Double shaft key
/CDRA1FY





Model	Н	U	UU
CDRA1FY□50	39	114	150
CDRA1FY□63	45	136	177
CDRA1FY□80	55	165	215
CDRA1FY□100	60	190	250



Other dimensions are the same as the single shaft.

Model	Н	N	U	UU
CDRA1FZ□50	30	15	105	125
CDRA1FZ□63	33	17	124	146
CDRA1FZ□80	43	20	153	178
CDRA1FZ□100	44	25	174	204

foot style

CDRA1LSize.....SCRA1Size, #5 (#5+#16+#17)
Double shaft

CDRA1FSize SCRA1 Size, #6 (#6+#16+#17) Single shaft with four chamfers

CDRA1W <u>Size</u> SCRA1 <u>Size</u>, #10 (#10+#16+#17)

Single shaft with four chamfers CDRA1FX[Size], #13 (Shaft only) Double shaft key

CDRA1FY SizeSCRA1 Size , #14 (Shaft only)
Double shaft with four chamfers
CDRA1FZ SizeSCRA1 Size , #15 (Shaft only)