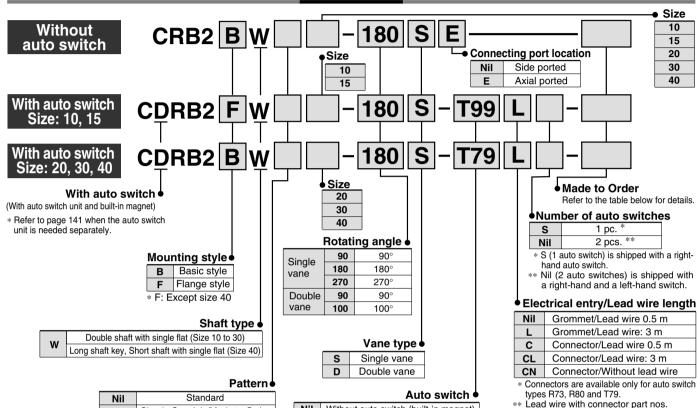
## **Rotary Actuator** Vane Style

# Series CRB2

Size: 10, 15, 20, 30, 40





Nil Without auto switch (built-in magnet)

\* For the applicable auto switch model, refer

to the table below.

### Applicable Auto Switches/Refer to pages 761 to 809 for further information on auto switches

Simple Specials/Made to Order

\* For details, refer to pages 69 to 80.

Applicable Auto Switches/Heier to pages 761 to 809 for further information on auto switches.															
Applicable size	Type	Electrical entry light	ght	140	Load voltage		Auto switch model	Lead wire type	Lead wire length (m) *						
			Wiring (Output)		DC AC				0.5 (Nil)	3 (L)	5 (Z)	None (N)	Applicable load		
	Solid state switch	Grommet C		2-wire		12V	_	T99	Heavy-duty cord	•	•	_	_		Relay, PLC
								T99V		•	•	_	_		
			ရွ	3-wire	24V	5V, 12V		S99		•	•	_	_		
For 10 and 15			×	(NPN)				S99V		•	•	_			
				3-wire				S9P		•	•	_	_	IC circuit	
			(1	(PNP)				S9PV		•	•	_	_		
	Reed switch			2-wire			5V, 12V, 24V	90	Parallel cord	•	•	•	_		
			Z			5V, 12V, 100V	5V, 12V, 24V, 100V	90A	Heavy-duty cord	•	•	•	_		
		Yes			l L		97	Parallel cord	•	•	•	_	l		
		>	۶				100V	93A	Heavy-duty cord	•	•	•	_		
For 20, 30 and 40	ļç,	Grommet		2-wire		12V		T79		•	•		_	_	
	stat	Connector	Yes					T79C		•	•	•	•		
		Grommet	3-wire (NPN)	5V, 12V	S79	S79	•	•		_	IC				
			3-wire (PNP)	24V		S7P	S7P	Heavy-duty	•	•	_	_	circuit		
	Reed switch	Grommet	es	2-wire			100V	R73	cord	•	•	_	_		PLC
		Connector	۶		re		—	R73C		•	•	•	•		
		Grommet	2			48V, 100V	100 V or less	R80		•	•	_	_	IC circuit	
		Connector	-			24 V or less	R80C		•						

\* Lead wire length symbols: 0.5 m ..... Nil (Example) R73C

3 m ..... L (Example) R73CL

5 m ..... Z (Example) R73CZ

None ..... N (Example) R73CN

### Flange Assembly Part No.

(For details, refer to page 52.)

D-LC05: Lead wire 0.5 m

D-LC30: Lead wire 3 m

D-LC50: Lead wire 5 m

Model	Assembly part no.			
CRB2FW10	P211070-2			
CRB2FW15	P211090-2			
CRB2FW20	P211060-2			
CRB2FW30	P211080-2			

#### Made to Order

(Refer to pages 69 to 73, 79 and 80 for details.)

Symbol	Specifications/Description				
XA1 to XA24	Shaft type pattern				
XC 1	Add connection port				
XC 2	Change threaded hole to through-hole				
XC 3	Change the screw position				
XC 4	Change rotation range				
XC 5	Change rotation range between 0 and 200°				
XC 6	Change rotation range between 0 and 110°				
XC 7	Reversed shaft				
XC30	Fluorine grease				

The above may not be selected when the product comes with an auto switch or angle adjustment unit. Refer to pages 69, 70 and 79 for details.

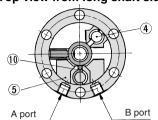


### Series CRB2

Construction: 10, 15, 20, 30, 40

**Single vane type** • Figures for 90° and 180° show the condition of the actuators when B port is pressurized, and the figure for 270° shows the position of the ports during rotation.

### For 90° (Top view from long shaft side)



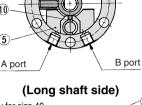


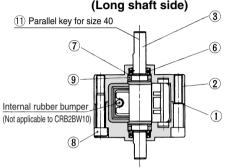
**(5)** 

A port



B port

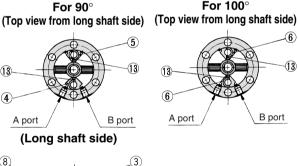


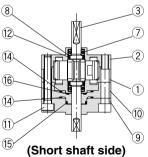


### Double vane type

**CRB2BW10-**□**D**/Figures below show the intermediate rotation position when A or B port is pressurized.

(Short shaft side)





#### omnonent Parts

Component Parts						
No.	Description	Material	Note			
1	Body (A)	Aluminum alloy	Anodized			
2	Body (B)	Aluminum alloy	Anodized			
3	Vane shaft	Carbon steel				
4	Stopper	Stainless steel*				
5	Stopper	Resin				
6	Stopper	Stainless steel*				
7	Bearing	High carbon chrome bearing steel				
8	Back-up ring	Stainless steel				
9	Cover	Aluminum alloy	Anodized			

<sup>\*</sup> For size 40, material for no. (4)(6) is die-cast aluminum.

### **Component Parts**

B port

	you ponour and						
No.	Description	Material	Note				
1	Body (A)	Aluminum alloy	Anodized				
2	Body (B)	Aluminum alloy	Anodized				
3	Vane shaft	Stainless steel*					
4	Stopper	Resin	For 270°				
5	Stopper	Resin	For 180°				
6	Bearing	High carbon chrome bearing steel					
7	Back-up ring	Stainless steel					
8	Hexagon socket head cap screw	Stainless steel	Special screw				
9	O-ring	NBR					
10	Stopper seal	NBR	Special seal				
11	Parallel key	Carbon steel	Size 40 only				
	On the second for ODDODWOO and ODDODWAO						

**(4**)

A port

### CRB2BW15/20/30/40-□D

For 100° For 90° (Top view from long shaft side) (Top view from long shaft side) 6 4 A port A port (Long shaft side) (Long shaft side) (18) 8 8 Internal rubber bumpe Internal rubber bumpe (11)

(Short shaft side) (Short shaft side) For size 40 **Component Parts** 

Description	Material	Note					
Plate	Resin						
Hexagon socket head cap screw	Stainless steel	Special screw					
O-ring	NBR						
Stopper seal	NBR	Special seal					
Gasket	NBR	Special seal					
O-ring	NBR						
O-ring	NBR						
O-ring	NBR	Double vane only					
Parallel key	Carbon steel	Size 40 only					
	Plate Hexagon socket head cap screw O-ring Stopper seal Gasket O-ring O-ring O-ring	Plate         Resin           Hexagon socket head cap screw         Stainless steel           O-ring         NBR           Stopper seal         NBR           Gasket         NBR           O-ring         NBR           O-ring         NBR           O-ring         NBR           NBR         NBR					



<sup>\*</sup> Carbon steel for CRB2BW30 and CRB2BW40.