

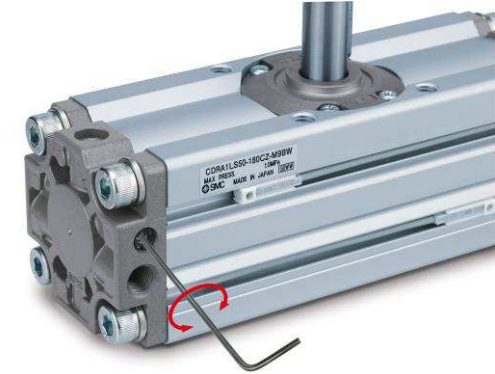


CRA1-Z series
Rotary Actuator. Rack & Pinion Type

Improved features and related benefits

FEATURE: Easier adjustment of the cushion valve (using hexagon wrench) that is now placed in the same face as the ports and auto-switches and does not protrude from the body. A retaining ring is added to prevent drop-out and the cushion seal can now be replaced.

CUSTOMER BENEFIT: Improved performance of the air cushion and labour cost savings. No interference with the cushion valve since it is flush now.



FEATURE: New profile allows the mounting of compact type auto-switches (D-M9# and D-A9#) and reduces the product weight up to 14%.

CUSTOMER BENEFIT: Cleaner profile with no interference with protruding parts and contribution to overall weight reduction. Inventory cost reduction since the standard auto-switches D-M9# and D-A9# are applicable.



Old CRA1

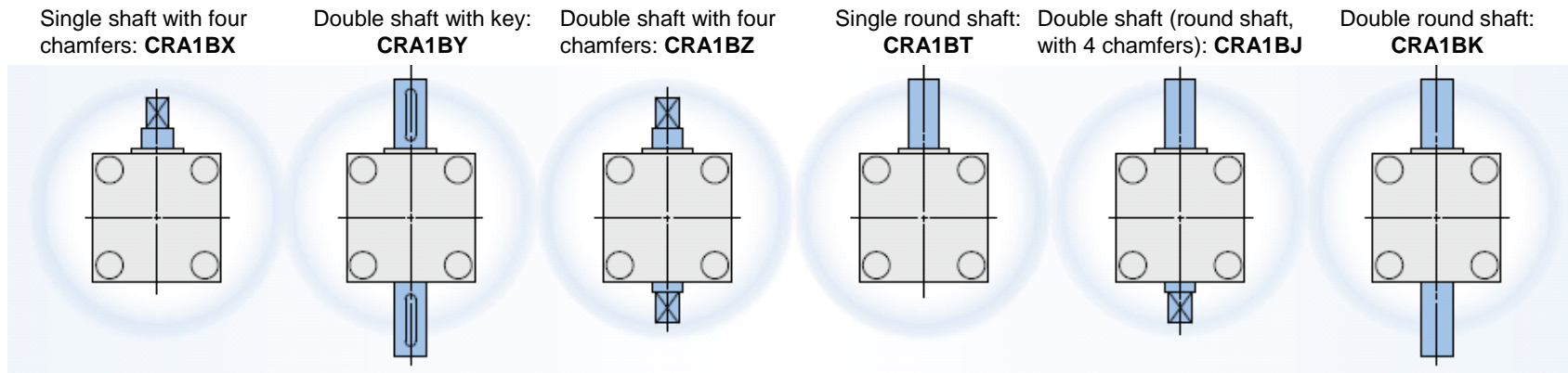


New CRA1

Improved features and related benefits

FEATURE: 6 additional types of shaft are now available as standard (previously available as made-to-order).

CUSTOMER BENEFIT: Improved delivery time.



FEATURE: Surface treatment of the covers and the bearing retainer is changed from black anodised to a metallic coating.

CUSTOMER BENEFIT: Contribution to an improved overall appearance



Old CRA1



New CRA1

Technical details

Standard options

		Air					Hydraulic oil			
		30	50	63	80	100	50	63	80	100
Rotating angle	90°	●	●	●	●	●	●	●	●	●
	100°		●	●	●	●	●	●	●	●
	180°	●	●	●	●	●	●	●	●	●
	190°		●	●	●	●	●	●	●	●
Shaft type	Single shaft	S	●	●	●	●	●	●	●	●
	Double shaft	W	●	●	●	●	●	●	●	●
	Single shaft with 4 chamfers	X	●	●	●	●	●	●	●	●
	Double shaft with key	Y	●	●	●	●	●	●	●	●
	Double shaft with 4 chamfers	Z	●	●	●	●	●	●	●	●
	Single round shaft	T	●	●	●	●	●	●	●	●
	Double shaft (round shaft with 4 chamfers)	J	●	●	●	●	●	●	●	●
	Double round shaft	K	●	●	●	●	●	●	●	●
Cushion	None		●	●	●	●	●	●	●	●
	Air cushion			●	●	●				
Variations	With auto-switch		●	●	●	●	●	●	●	●
	Angle adjustable type			●	●	●				
	Clean series	11-	●	●						
Mounting bracket	Flange	F		●	●	●	●	●	●	●
	Foot bracket	L	●	●	●	●	●	●	●	●

● Refreshed to CRA 1Z

Technical details

▪Made-to-order options

		Air					Hydraulic oil			
		30	50	63	80	100	50	63	80	100
Pattern	Shaft end shape	●	●	●	●	●	●	●	●	●
	Rotation range		●	●	●	●	●	●	●	●
	Port location	●	●	●	●	●	●	●	●	●
Stainless steel shaft/bolt/parallel key		-X6	●	●	●	●				
Operating temperature	Heat resistant 100°C	-X7	●	●	●	●				
Both sides angle adjustable		-X10		●	●	●				
One side angle adjustable, one side with cushion type		-X11		●	●	●				
Fluororubber seal		-X16	●	●	●	●				

- Refreshed to CRA1Z

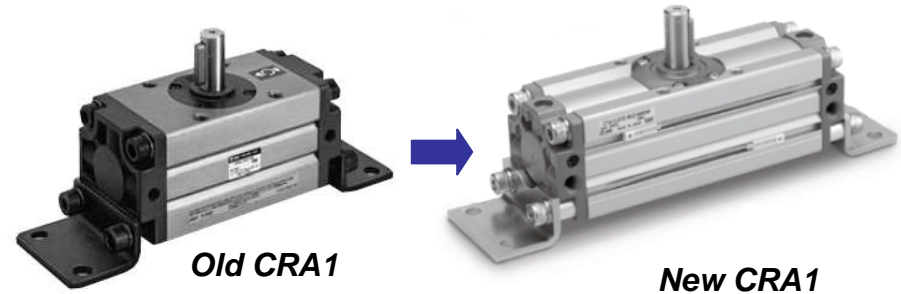
▪Product weight

Size	Standard weight [Kg]			
	Old CRA1		New CRA1	
	90°	180°	90°	180°
30	0,3	0,4	0,27	0,36
50	1,5	1,7	1,3	1,5
63	2,5	3	2,2	2,6
80	4,3	5	3,9	4,4
100	8,5	9,5	7,3	8,3

Technical details

▪Foot bracket

Size	Old CRA1	New CRA1
30	CRA1L30-Y-1	CRA1L30-Y-1Z
50	CRA1L50-Y-1	CRA1L50-Y-1Z
63	CRA1L63-Y-1	CRA1L63-Y-1Z
80	CRA1L80-Y-1	CRA1L80-Y-1Z
100	CRA1L100-Y-1	CRA1L100-Y-1Z



Mounting dimensions are fully interchangeable

▪Applicable auto-switches

	Old CRA1	New CRA1
Solid state type	D-F5# / D-J5#	D-M9#
Reed type	D-A5#/ D-A6#	D-A9#

▪Replacement parts

Size	Old CRA1		New CRA1	
	Standard	With air cushion	Standard	With air cushion
30-90°	P294010-20	-	P694010-20	-
30-180°	P294010-21	-	P694010-21	-
50	P294020-20A		P694020-20	P694020-21
63	P294030-20A		P694030-20	P694030-21
80	P294040-20		P694040-20	P694040-21
100	P294050-20A		P694050-20	P694050-21
Content	Slider		Slider	Slider
	Tube gasket		Tube gasket	Tube gasket
	Piston packing		Piston packing	Piston packing
	Spring pin		Spring pin	Spring pin
				Cushion seal