QRB Series Chuck w/ Built-in Compliance Device

Automatic Alignment Function with Overload Prevention Function

Key Features

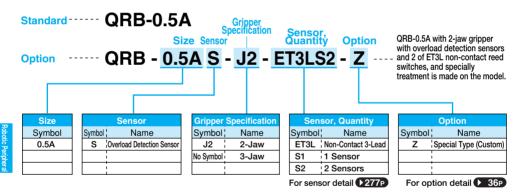
Light-weight and compact resin body

- Overload can be detected based on total and
 - lateral load in handling position
- Simple structure with cost in mind
- Selectable 2-jaw or 3-jaw gripper



QRB-0.5AS

How To Order



Model		QRB-0.5A	QRB-0.5A-J2	(Motion Axis)
Supported Chuck Model		CKL-20AS	CKL-20AS-J2	
Ambient Temperature (°C)		5 to 60		x `
Moving Distance	X-Y Direction	±1mm		
	Twisting Direction (α)	±3°		
	Compliance Angle (β)	±5°		
	Buffer Stroke (Z)	4mm		Y -
Repeatability	X-Y Direction	±0.15		
	α, θ Angle	±0.3°		
Overload Detection Reaction Coverage		Please refer to the figure on the right		
	Z	Please refer to the figure on the right		
Overload Detection Sensor Model		E2EC-CR8D1 (OMRON)		
Payload Limit		0.4kg (centering return load capacity)		
Buffer Load	At Stroke 0	2kgf		
	At Maximum Stroke	2.8kgf		
Mount Position		Gripper facing down & Body mounted in horizontal direction		P K
Weight		0.11 kg + 0.12 kg (gripper weight)		******

Specification

Y	~
	Z 2mm 2mm

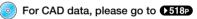
* Load Detection Reaction Range

Note 1: Please refer to general catalogue for specifications of the gripper and open/close confirmation sensors. Note 2: Please use soft materials (polyurethane, etc.) for air piping to avoid blocking the centering force.

Layout Drawing

dia. 57

QRB-0.5A



5.

 $3 \times 2 - M3 \times 0.5$

depth 6

6 -0. 012

10

QRB-0.5A Standard · J2 J2 Specification 72 $2 \times 2 - M3 \times 0.5$ 7 depth 6 31 41 (at Maximum Deflection 27) 4-dia.4.5 22 39 2 43 1.5 Rubber Cover Lead Wire 18 MAX 4 44 20 dia. ð ഭ

7.5

M5 × 0.8/

air port (Open)

15

M5 × 0.8

air port (Close)

2.5